ENGLISH

JVC

DIGITAL VIDEO CAMERA

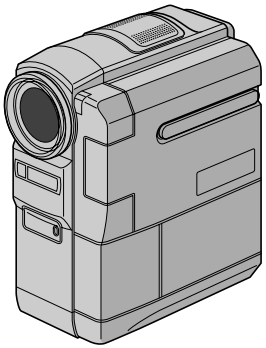
GR-DVX707
GR-DVX507
GR-DVX407
GR-DVX400

Please visit our Homepage on the World Wide Web and answer our Consumer Survey (in English only):

http://www.jvc-victor.co.jp/english/index-e.html

For Accessories:

http://www.jvc-victor.co.jp/english/accessory



Mini DV PAL

DSC DIGITAL STILL CAMERA

The camcorder illustrations appearing in this instruction manual are of the GR-DVX707.

INSTRUCTIONS

The D.S.C. (Digital Still Camera) features are available on GR-DVX707 and GR-DVX507.

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Dear Customer,
Thank you for purchasing this digital video camera. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of this product.

Using This Instruction Manual
- All major sections are listed in the Table Of Contents on the cover page.
- Notes appear after most subsections. Be sure to read these as well.
- Basic and advanced features/operation are separated for easier reference.

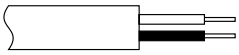
It is recommended that you…
…refer to the Index (☞ pg. 94 – 101) and familiarise yourself with button locations, etc. before use.
…read thoroughly the Safety Precautions and Safety Instructions that follow. They contain extremely important information regarding the safe use of this product.

You are recommended to carefully read the cautions on pages 88 through 90 before use.

SAFETY PRECAUTIONS

IMPORTANT (for owners in the U.K.)

Connection to the mains supply in the United Kingdom.
DO NOT cut off the mains plug from this equipment.
If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safty approved extension lead or consult your dealer.
BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.
If nonetheless the mains plug is cut off be sure to remove the fuse and dispose of the plug immediately, to avoid possible shock hazard by inadvertent connection to the mains supply.
If this product is not supplied fitted with a mains plug then follow the instructions given below:
DO NOT make any connection to the Larger Terminal coded E or Green.
The wires in the mains lead are coloured in accordance with the following code:



Blue to N (Neutral) or Black
Brown to L (Live) or Red

If these colours do not correspond with the terminal identifications of your plug, connect as follows:
Blue wire to terminal coded N (Neutral) or coloured black.
Brown wire to terminal coded L (Live) or coloured Red.
If in doubt — consult a competent electrician.

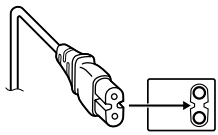
WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTIONS:
- To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.
- When you are not using the AC Adapter for a long period of time, it is recommended that you disconnect the power cord from AC outlet.

NOTES:
- *The rating plate (serial number plate) and safety caution are on the bottom and/or the back of the main unit.*
- *The rating information and safety caution of the AC Adapter are on its upper and lower sides.*

CAUTION:
To avoid electric shock or damage to the unit, first firmly insert the small end of the power cord into the AC Adapter until it is no longer wobbly, and then plug the larger end of the power cord into an AC outlet.



CAUTIONS:
- This camcorder is designed to be used with PAL-type colour television signals. It cannot be used for playback with a television of a different standard. However, live recording and LCD monitor/viewfinder playback are possible anywhere.
- Use the JVC BN-V306U/V312U battery packs and, to recharge them or to supply power to the camcorder from an AC outlet, use the provided multi-voltage AC Adapter and Power Cord. (An appropriate conversion adapter may be necessary to accommodate different designs of AC outlets in different countries.)

When the equipment is installed in a cabinet or on a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear).

Do not block the ventilation holes.
(If the ventilation holes are blocked by a newspaper, or cloth etc. the heat may not be able to get out.)

No naked flame sources, such as lighted candles, should be placed on the apparatus.

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

The apparatus shall not be exposed to dripping or splashing.

Do not use this equipment in a bathroom or places with water.
Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups etc.) on top of this unit.
(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way — switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of road safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

— NEVER let anyone especially children push anything into holes, slots or any other opening in the case — this could result in a fatal electrical shock;

— NEVER guess or take chances with electrical equipment of any kind — it is better to be safe than sorry!

SAFETY PRECAUTIONS

Do not point the lens or the viewfinder directly into the sun. This can cause eye injuries, as well as lead to the malfunctioning of internal circuitry. There is also a risk of fire or electric shock.

CAUTION!
The following notes concern possible physical damage to the camcorder and to the user.

When carrying, be sure to hold the camcorder firmly in your hand, with the grip strap securely around your wrist. Carrying or holding the camcorder by the viewfinder and/or the LCD monitor can result in dropping the unit, or in a malfunction.

Take care not to get your finger caught in the cassette holder cover. Do not let children operate the camcorder, as they are particularly susceptible to this type of injury.

Do not use a tripod on unsteady or unlevel surfaces. It could tip over, causing serious damage to the camcorder.

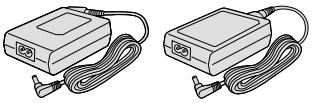
CAUTION!
Connecting cables (Audio/Video, S-Video, etc.) to the camcorder and leaving it on top of the TV is not recommended, as tripping on the cables will cause the camcorder to fall, resulting in damage.

Mini DV PAL SD™ MultiMediaCard

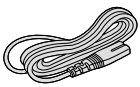
■ This camcorder is designed exclusively for the digital video cassette, SD Memory Card and MultiMediaCard. Only cassettes marked "Mini DV" and memory cards* marked "SD" or "MultiMediaCard" can be used with this unit.

Before recording an important scene...
… make sure you only use cassettes with the Mini DV mark Mini DV.
… make sure you only use memory cards* with the mark SD or MultiMediaCard.
… remember that this camcorder is not compatible with other digital video formats.
… remember that this camcorder is intended for private consumer use only. Any commercial use without proper permission is prohibited. (Even if you record an event such as a show, performance or exhibition for personal enjoyment, it is strongly recommended that you obtain permission beforehand.)
* Memory cards can be used with GR-DVX707/507 only.

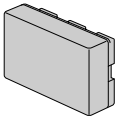
Provided Accessories



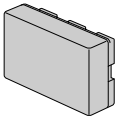
- AC Adapter
  AP-V10EG or AP-V12EG



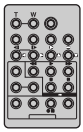
- Power Cord



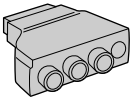
- Battery Pack
  BN-V306U



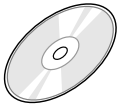
- Battery Mount Cover*
  (Already attached on the camcorder)



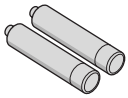
- Remote Control Unit
  RM-V717U



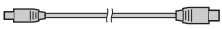
- Cable Adapter



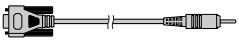
- CD-ROM



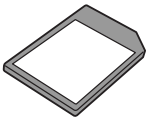
- AAA (R03) Battery x 2 (for remote control unit)



- USB Cable
  (GR-DVX707/507 only)



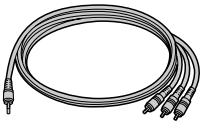
- PC Connection Cable
  (GR-DVX407/400 only)



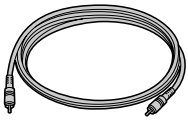
- Memory Card 8 MB
  (GR-DVX707/507 only)
  (Already inserted in the camcorder)



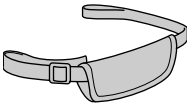
- Lens Cap
  (☞ pg. 7 for attachment)



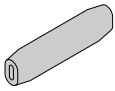
- Audio/Video Cable
  (ø3.5 mini-plug to RCA plug)



- Editing Cable
  GR-DVX707/507:
  Both plugs have 1 ring around the pin.
  GR-DVX407/400:
  One plug has 3 rings around the pin and the other has 1 ring around the pin.



- Grip Belt
  (☞ pg. 6 for attachment)



- Finger Support
  (☞ pg. 6 for attachment)

* Attach the battery mount cover to protect the battery connector when the battery pack is removed. For the attachment/detachment, refer to "Charging The Battery Pack" (☞ pg. 10).

NOTE:

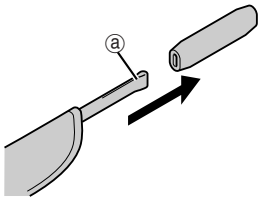
In order to maintain optimum performance of the camcorder, provided cables may be equipped with one or more core filter. If a cable has only one core filter, the end that is closest to the filter should be connected to the camcorder.

How To Attach The Grip Belt

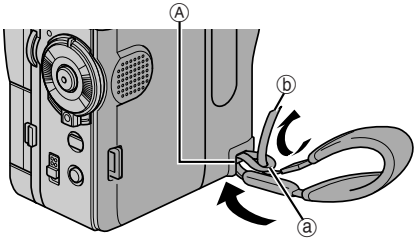
NOTES:

- *It is recommended to use the finger support so that the tally lamp or the flash (GR-DVX707/507 only) is unobstructed with your fingers.*
- *The grip belt can be attached to the camcorder even if the finger support is not used. Be careful not to cover the tally lamp or the flash (GR-DVX707/507 only) when holding camcorder without finger support.*

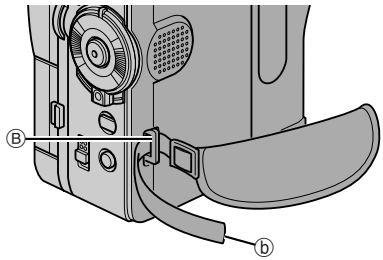
1) Thread the finger support with the end of the strap ⓐ.



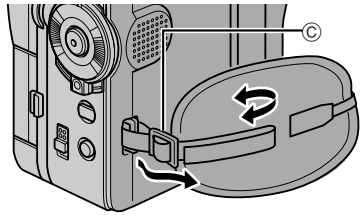
2) Thread the loop end ⓐ through the eyelet Ⓐ, then pass the other end of the strap ⓑ and the pad through the loop end ⓑ.



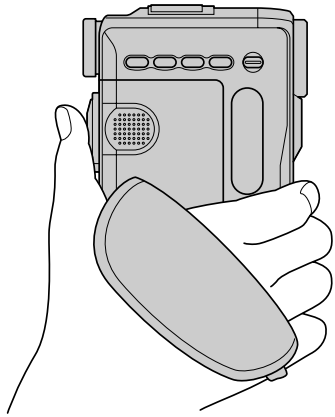
3) Thread the end of the strap ⓑ through the eyelet Ⓑ.



4) Thread the end of the strap through the buckle ©. Open the pad and fold the end of the strap ⓑ in the pad. Then fold the pad.



5) Adjust the grip. (☞ pg. 12)



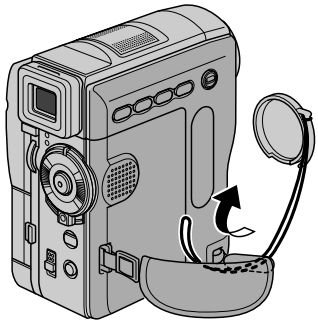
How To Attach The Lens Cap

To protect the lens, attach the provided lens cap to the camcorder as shown in the illustration.

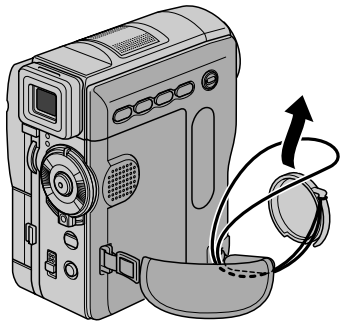
NOTE:

To confirm the lens cap is on correctly make sure the cap is flush to the camcorder.

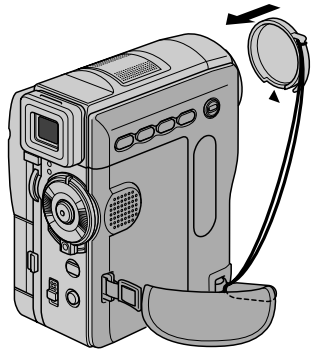
1)



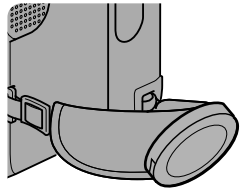
2)



3) Attach the lens cap with the cut downward.



- During shooting



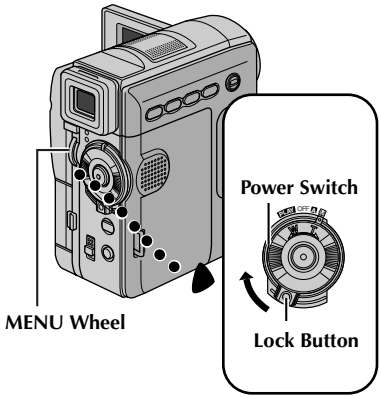
Automatic Demonstration

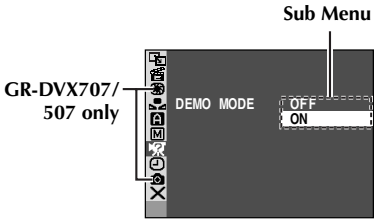
Automatic Demonstration takes place when "DEMO MODE" is set to "ON" (factory-preset).

- Automatic Demonstration starts when there is no operation for about 3 minutes after the Power Switch is set to "A" or "M" and no cassette is in the camcorder.
- Performing any operation during the demonstration stops the demonstration temporarily. If no operation is performed for more than 3 minute after that, the demonstration will resume.
- "DEMO MODE" remains "ON" even if the camcorder power is turned off.
- To cancel Automatic Demonstration:

1) Set the Power Switch to "M" while pressing down the Lock Button located on the switch.
2) Open the LCD monitor fully, or pull out the viewfinder fully.
3) Press the **MENU** Wheel in. The Menu Screen appears.
4) Rotate the **MENU** Wheel to select "SYSTEM", and press it. The SYSTEM Menu appears.
5) Rotate the **MENU** Wheel to select "DEMO MODE", and press it. The Sub Menu appears.
6) Rotate the **MENU** Wheel to select "OFF", and press it.
7) Rotate the **MENU** Wheel to select "RETURN", and press it twice. The normal screen appears.

NOTE:
Detach the lens cap to see the actual changes of the Automatic Demonstration activated on the LCD monitor or viewfinder.





GETTING STARTED

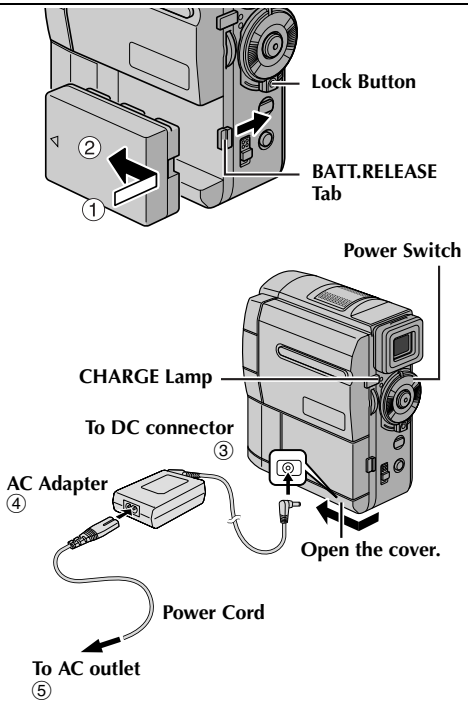
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Loading A Memory Card/Unloading A Memory Card (GR-DVX707/507 only) 17

Power

This camcorder's 2-way power supply system lets you choose the most appropriate source of power. Do not use provided power supply units with other equipment.

Charging The Battery Pack



1 With the arrow on the battery pack pointing to the lens side, push the battery pack slightly against the battery pack mount ①, then slide the battery pack until it locks in place ②.

2 Set the Power Switch to "OFF" while pressing down the Lock Button located on the switch.

3 Connect the AC Adapter to the camcorder ③, then connect the Power Cord to the AC Adapter ④.

4 Plug the Power Cord into an AC outlet ⑤.

5 The CHARGE Lamp on the camcorder blinks to indicate charging has started.

6 When the CHARGE Lamp stops blinking but stays lit, charging is finished.

7 Unplug the Power Cord from the AC outlet.

8 Disconnect the AC Adapter from the camcorder.

To detach the battery pack...
While sliding and holding the **BATT.RELEASE** tab to the right, remove it.

Battery pack	Charging time
BN-V306U	Approx. 1 hr. 30 min.
BN-V312U (optional)	Approx. 2 hr. 40 min.

NOTES:
- *During charging, the camcorder cannot be operated.*
- *If the protective cap is attached to the battery pack, remove it first.*
- *When charging the battery pack for the first time or after a long storage period, the CHARGE Lamp may not light. In this case, remove the battery pack from the camcorder, then try charging again.*
- *If the battery operation time remains extremely short even after having been fully charged, the battery is worn out and needs to be replaced. Please purchase a new one.*
- ***For other notes,*** ***☞ pg. 81.***

Using The Battery Pack

Perform step **1** of "Charging The Battery Pack" in the left column.

Approximate recording time

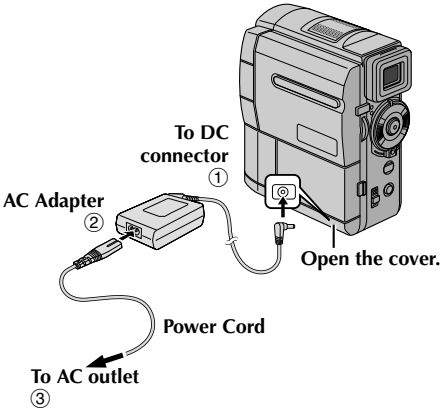
Battery pack	LCD monitor on	Viewfinder on
BN-V306U	50 min.	1 hr. 05 min.
BN-V312U (optional)	1 hr. 50 min.	2 hr. 15 min.
BN-V840U (optional)	5 hr. 20 min.	6 hr. 40 min.
BN-V856U (optional)	8 hr. 10 min.	10 hr. 10 min.

NOTES:
- *Recording time is reduced significantly under the following conditions:*
  - *Zoom or Record-Standby mode is engaged repeatedly.*
  - *The LCD monitor is used repeatedly.*
  - *The playback mode is engaged repeatedly.*
- *Before extended use, it is recommended that you prepare enough battery packs to cover 3 times the planned shooting time.*

INFORMATION:
The optional extended-use battery pack kit is a set composed of a battery pack and AC Power Adapter/Charger:
VU-V840 KIT: BN-V840U battery pack & AA-V15EG or AA-V15EK AC Power Adapter/Charger
VU-V856 KIT: BN-V856U battery pack & AA-V80EG or AA-V80EK AC Power Adapter/Charger
Read the kit's instruction manual before using. Also, by using the optional JVC VC-VBN856U DC Cord, it will be possible to connect BN-V840U or BN-V856U battery packs to the camcorder and supply power directly to the camcorder.

ATTENTION:
Before detaching the power source, make sure that the camcorder's power is turned off. Failure to do so can result in a camcorder malfunction.

Using AC Power

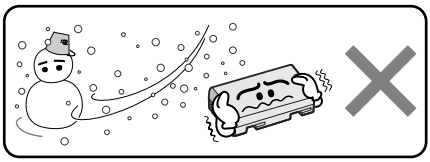


1 Connect the AC Adapter to the camcorder ①, then connect the Power Cord to the AC Adapter ②.

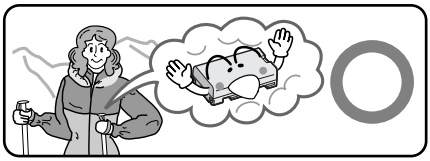
2 Plug the Power Cord into an AC outlet ③.

NOTES:
- *The provided AC Adapter features automatic voltage selection in the AC range from 110 V to 240 V.*
- ***For other notes, ☞ pg. 81.***

About Batteries



Lithium-ion is vulnerable in colder temperatures.



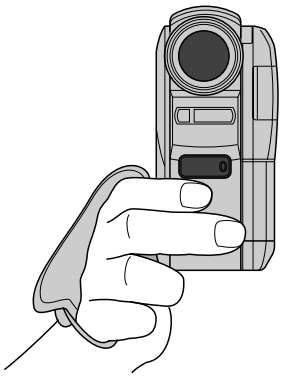
DANGER! Do not attempt to take the batteries apart, or expose them to flame or excessive heat, as it may cause a fire or explosion.
WARNING! Do not allow the battery or its terminals to come in contact with metals, as this can result in a short circuit and possibly start a fire.

The Benefits Of Lithium-Ion Batteries
Lithium-ion battery packs are small but have a large power capacity. However, when one is exposed to cold temperatures (below 10°C), its usage time becomes shorter and it may cease to function. If this happens, place the battery pack in your pocket or other warm, protected place for a short time, then re-attach it to the camcorder. As long as the battery pack itself is not cold, it should not affect performance.
(If you're using a heating pad, make sure the battery pack does not come in direct contact with it.)

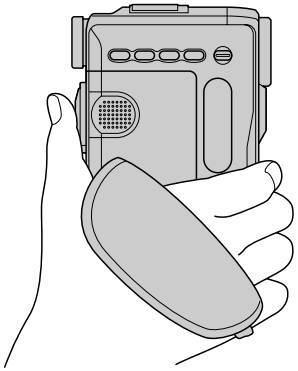
For other notes, ☞ pg. 81.

Grip Adjustment

1. Loosen the belt.
2. Pass your right hand through the loop and grasp the grip.
3. Hung your third and little fingers on the finger support so that the tally lamp or the flash (GR-DVX707/507 only) is unobstructed with your fingers.

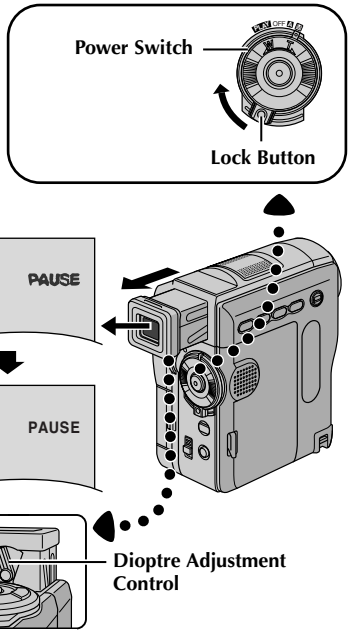


4. Adjust your thumb and fingers through the grip to easily operate the Recording Start/Stop Button, Power Switch and Power Zoom Ring. Be sure to tighten the belt to your preference.



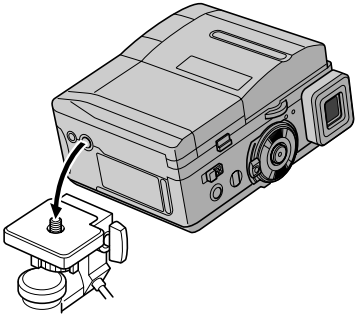
Viewfinder Adjustment

1. Set the Power Switch to "A" or "M" while pressing down the Lock Button located on the switch.
2. Pull out the viewfinder fully.
3. Turn the Dioptre Adjustment Control until the indications in the viewfinder are clearly focused.



Tripod Mounting

Align the screw on the tripod with the camcorder's mounting socket. Then tighten the screw.
- Some tripods are not equipped with studs.

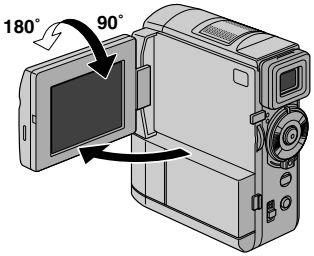


CAUTION:
When attaching the camcorder to a tripod, extend its legs to stabilise the camcorder. It is not advised to use small sized tripods. This may cause damage to the unit by falling over.

LCD Monitor And Viewfinder

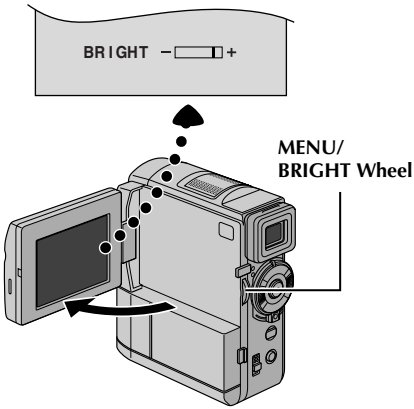
While using the LCD monitor:
Make sure the viewfinder is pushed back in. Open the LCD monitor fully. It can rotate 270º (90º downward, 180º upward).

While using the viewfinder:
Make sure the LCD monitor is closed and locked. Pull out the viewfinder fully.
- Be sure to pull out the viewfinder until you hear a click, otherwise it may be pushed back in during use.



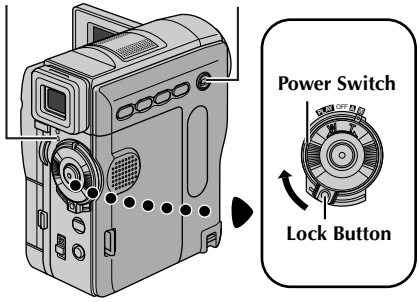
Brightness Adjustment Of The Display

Rotate the **MENU** (**MENU/BRIGHT**) Wheel until the bright level indicator on the display moves and the appropriate brightness is reached.



Operation Mode

To turn on the camcorder, set the Power Switch to any operation mode except "OFF" while pressing down the Lock Button located on the switch.



Choose the appropriate operation mode according to your preference using the Power Switch and **VIDEO/MEMORY** Switch (GR-DVX707/507 only).

Power Switch Position

A (Full Auto Recording):
Allows you to record using NO special effects or manual adjustments. Suitable for standard recording.
"A" appears on the display.



M (Manual Recording):
Allows you to set various recording functions using the Menus. (☞ pg. 38)
If you want more creative capabilities than Full Auto Recording, try this mode.
There is no indication on the display.

OFF:
Allows you to switch off the camcorder.

PLAY:
- Allows you to play back a recording on the tape.
- Allows you to display a still image stored in the memory card or to transfer a still image stored in the memory card to a PC. (GR-DVX707/507 only)
- Allows you to transfer a still image recorded on the tape to a PC. (GR-DVX407/400 only)
- Allows you to set various playback functions using the Menus. (☞ pg. 38)

VIDEO/MEMORY Switch Position (GR-DVX707/507 only)

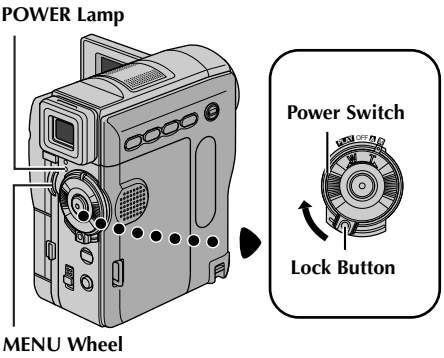
VIDEO:
Allows you to record on a tape or play back a tape. If "REC SELECT" is set to "➡ /➡ M" (☞ pg. 50), still images are recorded both on the tape and the memory card.

MEMORY:
- Allows you to record on a memory card or access data stored on a memory card.
- When the Power Switch is set to "A" or "M", the currently selected image size appears.



Date/Time Settings

The date/time is recorded onto the tape at all times, but its display can be turned on or off during playback. (☞ pg. 38, 49)

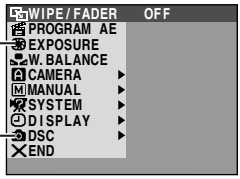


1 Set the Power Switch to "M" while pressing down the Lock Button located on the switch.

2 Open the LCD monitor fully, or pull out the viewfinder fully.

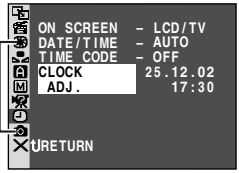
3 Press the **MENU** Wheel in. The Menu Screen appears.

GR-DVX707/507 only



4 Rotate the **MENU** Wheel to select "DISPLAY", and press it. The DISPLAY Menu appears.

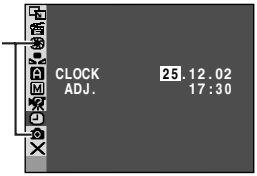
GR-DVX707/507 only



5 Rotate the **MENU** Wheel to select "CLOCK ADJ.", and press it. The parameter for "Day" is highlighted.

6 Rotate the **MENU** Wheel to input the day, and press it. Repeat to input the month, year, hour and minute.

GR-DVX707/507 only



7 Rotate the **MENU** Wheel to select "RETURN", and press it twice. The Menu Screen closes.

Built-in Clock's Rechargeable Lithium Battery

To store the date/time in memory, the clock's rechargeable lithium battery is integrated in the camcorder. While the camcorder is connected to an AC outlet using the AC Adapter, or while the battery pack attached to the camcorder continues to supply power, the clock's rechargeable lithium battery is always charged. However, if the camcorder is not used for approx. 3 months, the clock's lithium battery will become discharged and the date/time stored in memory will be lost. When this occurs, first connect the camcorder to an AC outlet using the AC Adapter for over 24 hours to charge the clock's rechargeable lithium battery. Then perform the date/time setting before using the camcorder.
Note that the camcorder can be used without setting the date/time.

NOTE:

*Even if you select "CLOCK ADJ.", if the parameter is not highlighted, the camcorder's internal clock continues to operate. Once you move the highlight bar to the first date/time parameter (day), the clock stops. When you finish setting the minute and press the **MENU** Wheel in, the date and time begin operation from the date and time you have just set.*

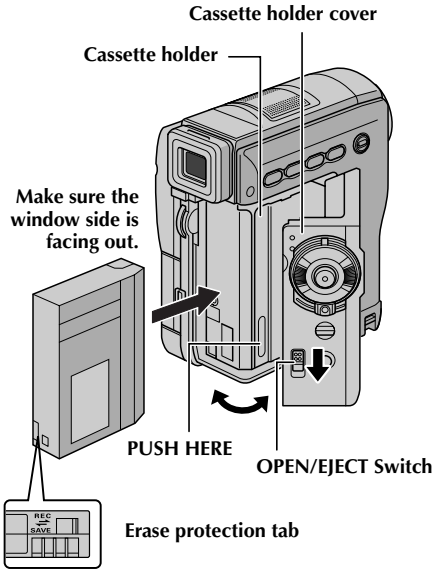
Loading A Cassette /Unloading A Cassette

The camcorder needs to be powered up to load or eject a cassette.

1 Slide down and hold **OPEN/EJECT** in the direction of the arrow, then pull the cassette holder cover open until it locks. The cassette holder opens automatically.
- Do not touch internal components.

2 Insert or remove a tape and press "PUSH HERE" to close the cassette holder.
- Be sure to press only the section labelled "PUSH HERE" to close the cassette holder; touching other parts may cause your finger to get caught in the cassette holder, resulting in injury or product damage.
- Once the cassette holder is closed, it recedes automatically. Wait until it recedes completely before closing the cassette holder cover.
- When the battery pack's charge is low, you may not be able to close the cassette holder cover. Do not apply force. Replace the battery pack with a fully charged one or use AC power before continuing.

3 Close the cassette holder cover firmly until it locks into place.



To protect valuable recordings…
Slide the erase protection tab on the back of the tape in the direction of "SAVE". This prevents the tape from being recorded over. To record on this tape, slide the tab back to "REC" before loading it.

Approximate recording time

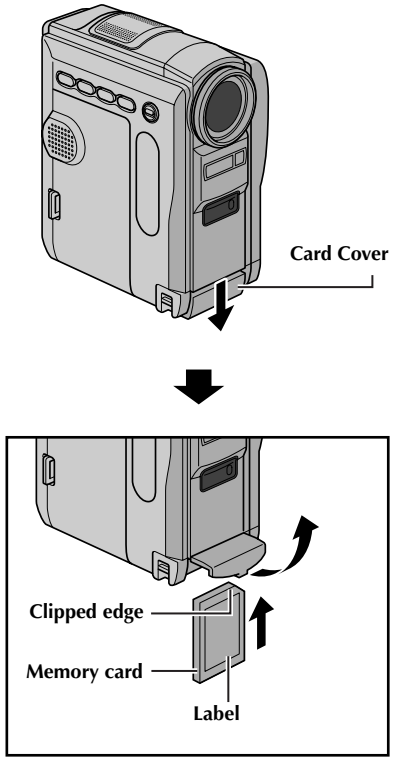
Tape	Recording mode	
	SP	LP
30 min.	30 min.	45 min.
60 min.	60 min.	90 min.
80 min.	80 min.	120 min.

To switch the recording mode, refer to page 38 and 44.

NOTES:
- *It takes a few seconds for the cassette holder to open. Do not apply force.*
- *If you wait a few seconds and the cassette holder does not open, close the cassette holder cover and try again. If the cassette holder still does not open, turn the camcorder off then on again.*
- *If the tape does not load properly, open the cassette holder cover fully and remove the cassette. A few minutes later, insert it again.*
- *When the camcorder is suddenly moved from a cold place to a warm environment, wait a short time before opening the cassette holder cover.*
- *Closing the cassette holder cover before the cassette holder recedes may cause damage to the camcorder.*
- *Even when the camcorder is switched off, a cassette can be loaded or unloaded. After the cassette holder is closed with the camcorder switched off, however, it may not recede. It is recommended to turn the power on before loading or unloading.*
- *When resuming recording, once you open the cassette holder cover a blank portion will be recorded on the tape or a previously recorded scene will be erased (recorded over) regardless of whether the cassette holder came out or not. See "Recording From The Middle Of A Tape" (☞ pg. 21).*

Loading A Memory Card /Unloading A Memory Card (GR-DVX707/507 only)

The provided memory card is already inserted in the camcorder at the time of purchase.



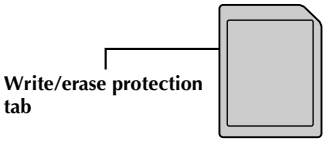
1 Make sure the camcorder's power is off.

2 Open the card cover.

3 **To load a memory card**, firmly insert it with its clipped edge first.
To unload a memory card, push it once. After the memory card comes out of the camcorder, pull it out.
- Do not touch the terminal on the reverse side of the label.

4 Close the card cover.

To protect valuable files (available only for SD Memory Card)…



Slide the write/erase protection tab on the side of the memory card in the direction of "LOCK". This prevents the memory card from being recorded over. To record on this memory card, slide the tab back to the position opposite to "LOCK" before loading it.

NOTES:
- *Be sure to use only SD Memory Cards marked "SD" or MultiMediaCards marked "MultiMediaCard".*
- *Some brands of memory cards are not compatible with this camcorder. Before purchasing a memory card, consult its manufacturer or dealer.*
- *Before using a new memory card, it is necessary to FORMAT the card. (☞ pg. 36)*

ATTENTION:
Do not insert or remove the memory card while the camcorder is turned on, as this may cause the memory card to be corrupted or cause the camcorder to become unable to recognise whether or not the card is installed.

VIDEO RECORDING & PLAYBACK

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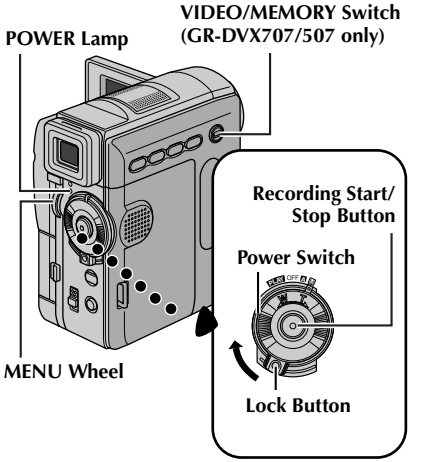
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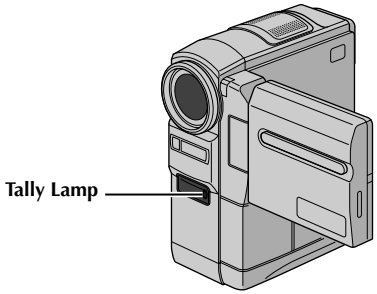
Basic Recording

NOTE:

Before continuing, perform the procedures listed below:

- *Power (☞ pg. 10)*
- *Loading A Cassette (☞ pg. 16)*
- *Remove the lens cap (☞ pg. 7)*





1 Set the **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)

2 Set the Power Switch to "A" or "M" while pressing down the Lock Button located on the switch.

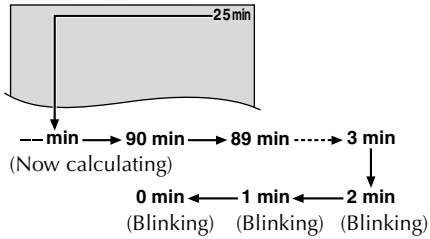
3 Open the LCD monitor fully, or pull out the viewfinder fully.
- The POWER Lamp lights and the camcorder enters the Record-Standby mode. "PAUSE" is displayed.

4 To start recording, press the Recording Start/Stop Button. The Tally Lamp lights and "● REC" appears on the display while recording is in progress.

5 To stop recording, press the Recording Start/Stop Button again. The camcorder re-enters the Record-Standby mode.

Tape Remaining Time

Approximate tape remaining time appears on the display. "– – min" means the camcorder is calculating the remaining time. When the remaining time reaches 2 minutes, the indication starts blinking.



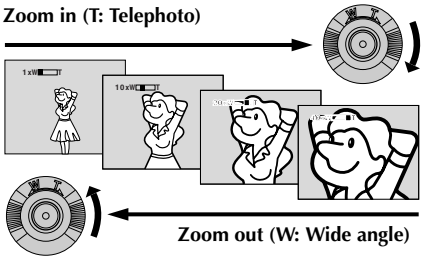
NOTES:

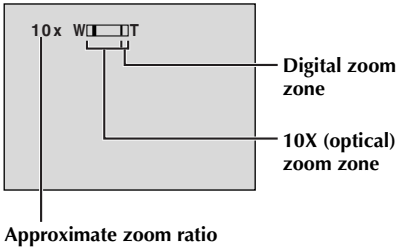
- *The image will not appear simultaneously on the LCD monitor and the viewfinder.*
- *If the Record-Standby mode continues for 5 minutes, the camcorder's power shuts off automatically. To turn the camcorder on again, push back and pull out the viewfinder again or close and re-open the LCD monitor.*
- *LCD monitor/viewfinder indications:*
  - *When power is supplied from a battery: the "▭" battery indicator is displayed. (☞ pg. 100)*
  - *When power is supplied from an AC outlet: the "▭" battery indicator does not appear.*
- *When a blank portion is left between recorded scenes on the tape, the time code is interrupted and errors may occur when editing the tape. To avoid this, refer to "Recording From The Middle Of A Tape" (☞ pg. 21).*
- *To turn the Tally Lamp or beep sounds off, ☞ pg. 38, 48.*
- *To record in LP (Long Play) mode, ☞ pg. 38, 44.*
- ***For other notes, ☞ pg. 81.***

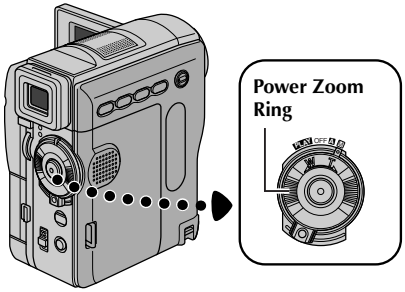
Zooming

Produces the zoom in/out effect, or an instantaneous change in image magnification.

Zoom In
Turn the Power Zoom Ring towards "T".
Zoom Out
Turn the Power Zoom Ring towards "W".
- The further you turn the Power Zoom Ring, the quicker the zoom action.







NOTES:
- *Focusing may become unstable during Zooming. In this case, set the zoom while in Record-Standby, lock the focus by using the manual focus (☞ pg. 55), then zoom in or out in Record mode.*
- *Zooming is possible to a maximum of 200X, or it can be switched to 10X magnification using the optical zoom. (☞ pg. 44)*
- *Zoom magnification of over 10X is done through Digital image processing, and is therefore called Digital Zoom.*
- *During Digital zoom, the quality of image may suffer.*
- *Digital zoom cannot be used when the **VIDEO/MEMORY** Switch is set to "MEMORY".*
- *Macro shooting (as close as approx. 5 cm to the subject) is possible when the Power Zoom Ring is set all the way to "W". Also see "TELE MACRO" in MANUAL Menu on page 46.*
- ***For other notes, ☞ pg. 81.***

Journalistic Shooting

In some situations, different shooting angles may provide more dramatic results. Hold the camcorder in the desired position and tilt the LCD monitor in the most convenient direction. It can rotate 270º (90º downward, 180º upward).



Self-Recording

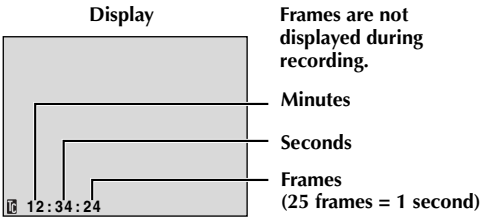
You can shoot yourself while viewing your own image in the LCD monitor. Open the LCD monitor and tilt it upward 180º so that it faces forward, then point the lens toward yourself and start recording.



Time Code

During recording, a time code is recorded on the tape. This code is to confirm the location of the recorded scene on the tape during playback.
If recording starts from a blank portion, the time code begins counting from "00:00:00" (minute:second:frame). If recording starts from the end of a previously recorded scene, the time code continues from the last time code number.
To perform Random Assemble Editing (☞ pg. 73 – 77), time code is necessary. If during recording a blank portion is left partway through the tape, the time code is interrupted. When recording is resumed, the time code starts counting up again from "00:00:00". This means the camcorder may record the same time codes as those existing in a previously recorded scene. To prevent this, perform "Recording From The Middle Of A Tape" below in the following cases;

- When shooting again after playing back a recorded tape.
- When power shuts off during shooting.
- When a tape is removed and re-inserted during shooting.
- When shooting using a partially recorded tape.
- When shooting on a blank portion located partway through the tape.
- When shooting again after shooting a scene then opening/closing the cassette holder cover.



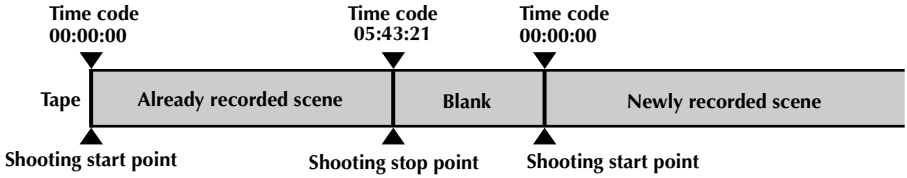
Recording From The Middle Of A Tape

1) Play back a tape or use Blank Search (☞ pg. 23) to find the spot at which you want to start recording, then engage the Still Playback mode. (☞ pg. 22)
2) Set the Power Switch to "A" or "M" while pressing down the Lock Button located on the switch, then start recording.

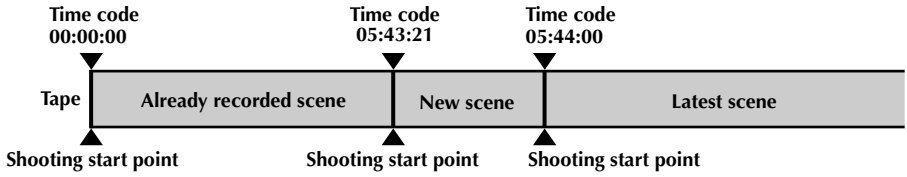
NOTES:

- *The time code cannot be reset.*
- *During fast-forwarding and rewinding, the time code indication does not move smoothly.*
- *The time code is displayed only when "TIME CODE" is set to "ON". (☞ pg. 49)*

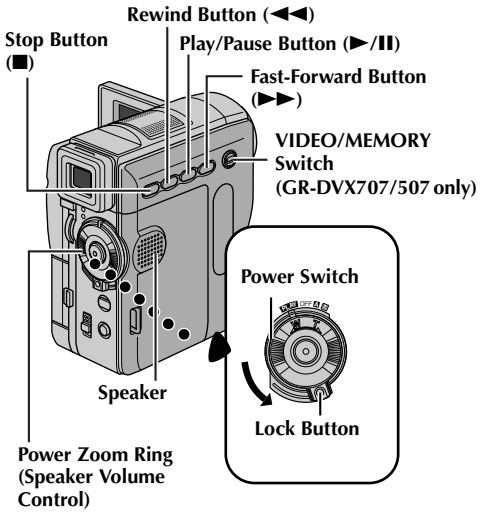
When a blank portion is recorded on a tape



Proper recording



Normal Playback



1 Load a cassette. (☞ pg. 16)

2 Set the **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)

3 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

4 To start playback, press ►/II.

5 To stop playback, press ■.
- During Stop mode, press ◄◄ to rewind, or ►► to fast-forward the tape.

NOTES:
- *If Stop mode continues for 5 minutes when power is supplied from a battery, the camcorder shuts off automatically. To turn on again, set the Power Switch to "OFF", then to "PLAY".*
- *The playback picture can be viewed in the LCD monitor, viewfinder or on a connected TV. (☞ pg. 24)*
- *You can also view the playback picture on the LCD monitor with it flipped over and pushed against the camcorder body.*
- *LCD monitor/viewfinder indications:*
  - *When power is supplied from a battery: the "▭" battery indicator is displayed. (☞ pg. 100)*
  - *When power is supplied from an AC outlet: the "▭" battery indicator does not appear.*
  - *During Stop mode, none of the indications are displayed.*
- *When a cable is connected to the AV connector, the sound is not heard from the speaker.*

To control the speaker volume…
Turn the Power Zoom Ring toward "T" to turn up the volume, or toward "W" to turn down the volume.

Still Playback

Pauses during video playback.
1) Press ►/II during playback.
2) To resume normal playback, press ►/II again.
- If still playback continues for more than about 3 minutes, the camcorder's Stop mode is automatically engaged.
- When ►/II is pressed, the image may not pause immediately while the camcorder stabilises the still image.

Shuttle Search

Allows high-speed search in either direction during video playback.
1) During playback, press ►► for forward search, or ◄◄ for reverse search.
2) To resume normal playback, press ►/II.
- During playback, press and hold ►► or ◄◄. The search continues as long as you hold the button. Once you release the button, normal playback resumes.
- A slight mosaic effect appears on the display during Shuttle Search. This is not a malfunction.

ATTENTION:
During Shuttle Search, parts of the picture may not be clearly visible, particularly on the left side of the screen.

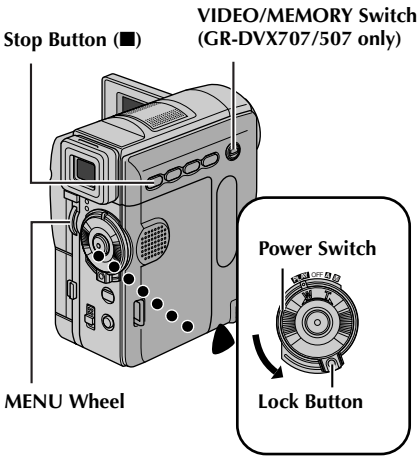


Frame-By-Frame Playback

Allows frame-by-frame search.
1) Engage Still Playback.
2) During Still Playback, rotate the **MENU** Wheel toward "+" for forward Frame-By-Frame Playback, or towards "–" for reverse Frame-By-Frame Playback.
3) To resume normal playback, press ►/II.
- You can also use the provided remote control for Frame-By-Frame Playback. (☞ pg. 68)

Blank Search

Helps you find where you should start recording in the middle of a tape to avoid time code interruption. (☞ pg. 21)



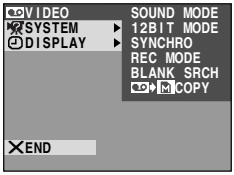
1 Load a cassette. (☞ pg. 16)

2 Set the **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)

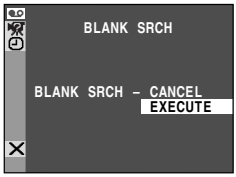
3 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

4 Press the **MENU** Wheel in. The Menu Screen appears.

5 Rotate the **MENU** Wheel to select "VIDEO", and press it. The VIDEO Menu appears.



6 Rotate the **MENU** Wheel to select "BLANK SRCH", and press it. The Sub Menu appears.



7 Rotate the **MENU** Wheel to select "EXECUTE", and press it.



- The "BLANK SEARCH" indication appears blinking and the camcorder automatically starts reverse or forward search, then stops at the spot which is about 3 seconds of tape before the beginning of the detected blank portion.
- To cancel Blank Search midway, press ■.

NOTES:

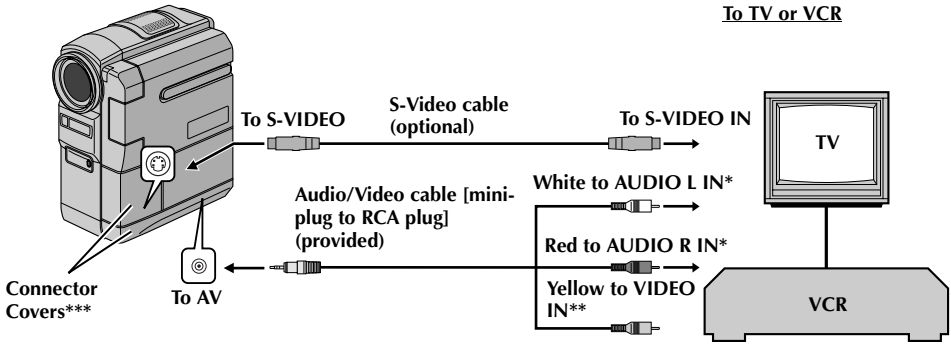
- *In step 7, if the current position is at a blank portion, the camcorder searches in the reverse direction. If the current position is at a recorded portion, the camcorder searches in the forward direction.*
- *Blank Search does not work if "HEAD CLEANING REQUIRED. USE CLEANING CASSETTE" has appeared with the tape.*
- *If the beginning or end of the tape is reached during Blank Search, the camcorder stops automatically.*
- *A blank portion which is shorter than 5 seconds of tape may not be detected.*
- *The detected blank portion may be located between recorded scenes. Before you start recording, make sure there is no recorded scene after the blank portion.*

Slow-Motion Playback
Playback Zoom
Playback Special Effects

Available only with the remote control (provided). (☞ pg. 68, 69)

Connections To A TV Or VCR

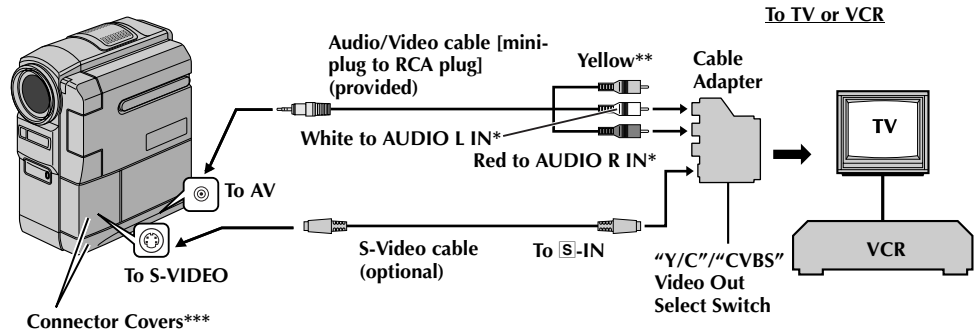
A. Use the provided Audio/Video cable and optional S-Video cable.



* The Audio cable is not required for watching still images only.
** Connect when an S-Video cable is not used.
*** When connecting the cables, open these covers.

B. If your TV/VCR has a 21-pin connector

Use the provided Cable Adapter.



* The Audio cable is not required for watching still images only.
** Connect when an S-Video cable is not used.
*** When connecting the cables, open these covers.

NOTE:

Set the video out select switch of the cable adapter as required:

Y/C: *When connecting to a TV or VCR which accepts Y/C signals and uses an S-Video cable.*

CVBS: *When connecting to a TV or VCR which does not accept Y/C signals and uses an audio/video cable.*

1 Make sure all units are turned off.

2 Connect the camcorder to a TV or VCR as shown in the illustration. (☞ pg. 24)
If using a VCR, go to step **3**.
If not, go to step **4**.

3 Connect the VCR output to the TV input, referring to your VCR's instruction manual.

4 Turn on the camcorder, the VCR and the TV.

5 Set the VCR to its AUX input mode, and set the TV to its VIDEO mode.

To choose whether or not the following displays appear on the connected TV…

- Date/Time
  Set "DATE/TIME" to "AUTO", "ON" or "OFF". (☞ pg. 49)
  Or, press **DISPLAY** on the remote control to turn on/off the date indication.
- Time Code
  Set "TIME CODE" to "ON" or "OFF". (☞ pg. 49)
- Playback sound mode, tape speed and tape running displays for video playback
  Set "ON SCREEN" to "LCD" or "LCD/TV". (☞ pg. 49)

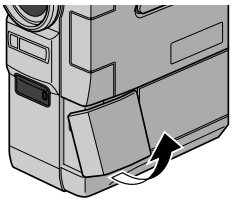
NOTES:

- ***It is recommended to use the AC Adapter as the power supply instead of the battery pack. (☞ pg. 11)***
- *To monitor the picture and sound from the camcorder without inserting a tape or memory card, set the camcorder's Power Switch to "A" or "M", then set your TV to the appropriate input mode.*
- *Make sure you adjust the TV sound volume to its minimum level to avoid a sudden burst of sound when the camcorder is turned on.*
- *If you have a TV or speakers that are not specially shielded, do not place the speakers adjacent to the TV as interference will occur in the camcorder playback picture.*
- *While the Audio/Video cable is connected to the AV connector, sound cannot be heard from the speaker.*

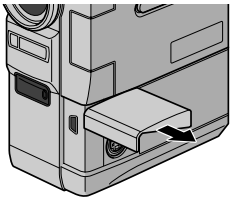
NOTE:

How to open the LCD monitor when using the connectors beneath the cover...

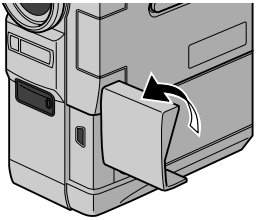
1) Open the connector cover.



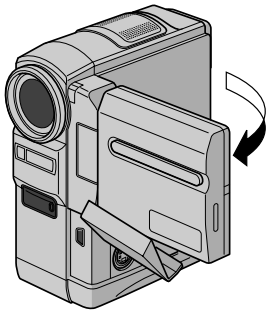
2) Pull out the connector cover fully.



3) Rotate the connector cover 90° to the left.



4) Open the LCD Monitor.



DIGITAL STILL CAMERA (D.S.C.) RECORDING & PLAYBACK

The D.S.C. (Digital Still Camera) features are available on GR-DVX707 and GR-DVX507.

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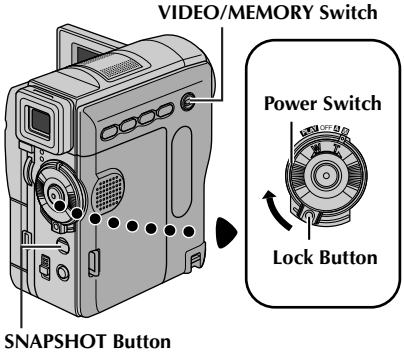
Basic Shooting (D.S.C. Snapshot)

You can use your camcorder as a Digital Still Camera for taking snapshots. Still images are stored in the memory card.

NOTE:

Before continuing, perform the procedures listed below:

- *Power (☞ pg. 10)*
- *Loading A Memory Card (☞ pg. 17)*
- *Remove the lens cap (☞ pg. 7)*



1 Set the **VIDEO/MEMORY** Switch to "MEMORY".

2 Set the Power Switch to "A" or "M" while pressing down the Lock Button located on the switch.

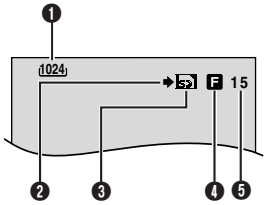
3 Open the LCD monitor fully, or pull out the viewfinder fully.

4 Press **SNAPSHOT**. The "PHOTO" indication appears while the snapshot is being taken.
- Still images are recorded in the snapshot mode with no frame.
- To delete unwanted still images, refer to "Deleting Files" (☞ pg. 33).
- When you do not want to hear the shutter sound, set "BEEP" to "OFF". (☞ pg. 48)
- To change the Image Size and/or Picture Quality, ☞ pg. 50.



Snapshot mode with no frame

There is the sound of a shutter closing.



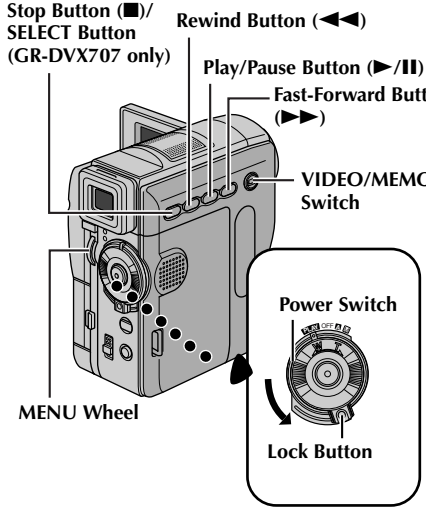
❶ **Image Size (☞ pg. 50, 97)**
❷ **Shooting Icon (☞ pg. 97)**
❸ **Card Icon (☞ pg. 97)**
❹ **Picture Quality (☞ pg. 50, 97)**
❺ **Remaining Number Of Shots (☞ pg. 97)**

NOTES:

- *Even if "DIS" is set to "ON" (☞ pg. 46), the Stabiliser will be disabled.*
- *If Snapshot recording is not possible, "PHOTO" blinks when **SNAPSHOT** is pressed.*
- *If Program AE with special effects (☞ pg. 42) is engaged, certain modes of Program AE with special effects are disabled during Snapshot recording. In such a case, the icon blinks.*
- *If shooting is not performed for approx. 5 minutes when the Power Switch is set to "A" or "M" and power is supplied from the battery pack, the camcorder shuts off automatically to save power. To perform shooting again, push back and pull out the viewfinder again or close and re-open the LCD monitor.*
- *The Motor Drive mode (☞ pg. 53) is disabled when the **VIDEO/MEMORY** Switch is set to "MEMORY".*
- *When a cable is connected to the AV connector, the shutter sound is not heard from the speaker, however it is recorded onto the tape.*
- *Still images taken are compliant to DCF (Design rule for Camera File system). They do not have any compatibility with devices which are not compliant to DCF.*

Normal Playback Of Images

Images shot with the camcorder are automatically numbered, then stored in numerical order in the memory card. You can view the stored images, one at a time, much like flipping through a photo album.



1 Load a memory card. (☞ pg. 17)

2 Set the **VIDEO/MEMORY** Switch to "MEMORY".

3 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

4 Open the LCD monitor fully, or pull out the viewfinder fully.
- The type of file (IMAGE, E-MAIL CLIP or SOUND) which has been played back at the last time is displayed.

5 If the video clip playback (E-MAIL CLIP, (☞ pg. 29)) or the digital sound playback (SOUND, (☞ pg. 29)) screen appears, press **SELECT**. The MEMORY SELECT screen appears.

6 Rotate the **MENU** Wheel to select "IMAGE", and press it. The image playback screen (IMAGE) appears.

7 Press ◄◄ to display the previous file. Press ►► to display the next file.
- Pressing **INFO** gives you details on the displayed file. (☞ pg. 30)
- You can also look for the desired file using Index Screen. (☞ pg. 30)
- You can turn off the on-screen playback display. (☞ pg. 31)

NOTES:

- *Even if you shoot a new image after playing back a low-numbered one, this will not overwrite an existing image, because new images are automatically stored after the last-recorded one.*
- *Images shot in a file size other than "640 x 480", "1024 x 768" and "1280 x 960" (GR-DVX707 only) with another devices will be displayed thumbnail images. These thumbnail images cannot be transferred to a PC.*
- *Images shot with devices (such as JVC GR-DVX7) that are not compatible with DCF cannot be viewed with this camcorder; "UNSUPPORTED FILES" will be displayed.*

Auto Playback Of Images

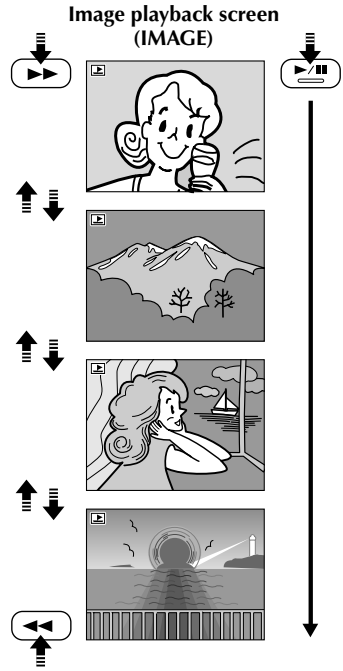
You can run through all the images stored in memory card automatically.

1 Perform steps **1** – **6** in "Normal Playback Of Images".

2 Press ►/II to start Auto Playback.
- If you press ◄◄ during Auto Playback, files are displayed in descending order.
- If you press ►► during Auto Playback, files are displayed in ascending order.

3 To end Auto Playback, press ■.

[For Normal Playback]
To display the next image **[For Auto Playback]**

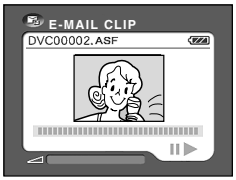


To display the previous image

Playback Of Video Clips (GR-DVX707 only)

You can view video clips (☞ pg. 60) stored in the memory card.

1. Load a memory card. (☞ pg. 17)
2. Set the **VIDEO/MEMORY** Switch to "MEMORY".
3. Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
4. Open the LCD monitor fully, or pull out the viewfinder fully.
   - The type of file (IMAGE, E-MAIL CLIP or SOUND) which has been played back at the last time is displayed.
5. If the image playback (IMAGE) or the digital sound playback (SOUND) screen appears, press **SELECT**. The MEMORY SELECT screen appears.
6. Rotate the **MENU** Wheel to select "E-MAIL CLIP", and press it. The video clip playback screen (E-MAIL CLIP) appears.



7. Press ◄◄ to select the previous file. Press ►► to select the next file.
   - Pressing **INFO** gives you details on the displayed file. (☞ pg. 30)
   - You can also look for the desired file using Index Screen. (☞ pg. 30)
8. To start playback, press ►/II.
9. To stop playback, press ■.

NOTE:

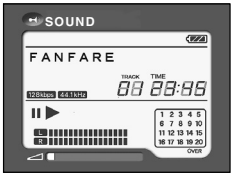
Video clips cannot be displayed on a connected TV.

Playback Of Digital Sound Effects (GR-DVX707 only)

12 sound effects are pre-stored in the provided memory card. You can listen to the sound effects stored in the memory card. The sound effects can be also dubbed onto a tape. (☞ pg. 59)

EXPLOSION	Explosion
SIREN	Siren
LAUGHTER	Laughter
RACE CAR	Racing car
DOOR BELL	Door bell
BUZZER	Buzzer
FANFARE	Fanfare
APPLAUSE	Applause
CHEERS	Cheers
BOING	Boing
SCREAM	Scream
JEERS	Jeers

1. Load the provided memory card. (☞ pg. 17)
2. Set the **VIDEO/MEMORY** Switch to "MEMORY".
3. Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
4. Open the LCD monitor fully, or pull out the viewfinder fully.
   - The type of file (IMAGE, E-MAIL CLIP or SOUND) which has been played back at the last time is displayed.
5. If the image playback (IMAGE) or the video clip playback (E-MAIL CLIP) screen appears, press **SELECT**. The MEMORY SELECT screen appears.
6. Rotate the **MENU** Wheel to select "SOUND", and press it. The digital sound playback screen (SOUND) appears.



7. To play back to the sound effect, press ►/II.
   - All the sounds are played back in ascending order.

NOTES:

- *In the digital sound playback screen,*
  - *Press ◄◄ to select the previous file. Press ►► to select the next file.*
  - *Pressing **INFO** gives you details on the displayed file. (☞ pg. 30)*
- *You can also look for the desired file using Index Screen. (☞ pg. 30)*

Index Playback Of Files

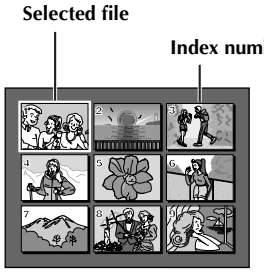
You can view several different files stored in the memory card at a time. This browsing capability makes it easy to locate a particular file you want.

1 **For Index Playback of image files**, perform **1** – **6** in "Normal Playback Of Images" (☞ pg. 28).

For Index Playback of video clip files, perform **1** – **6** in "Playback Of Video Clips (GR-DVX707 only)" (☞ pg. 29).

For Index Playback of sound files, perform **1** – **6** in "Playback Of Digital Sound Effects (GR-DVX707 only)" (☞ pg. 29).

2 Press **INDEX**. The Index Screen of the selected type of file appears.



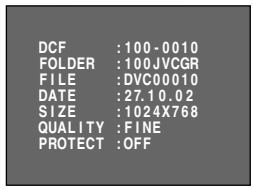
3 Rotate the **MENU** Wheel to move the frame to the desired file.
- Pressing ►► displays the next page and ◄◄ displays the previous page.

4 Press the **MENU** Wheel in. The selected file is displayed.
- Pressing **INFO** gives you details on the displayed file. (☞ right column)

Viewing File Information

You can get the relevant file information by pressing the **INFO** Button during normal playback or Index Playback.

DCF	:	Folder and file number (IMAGE only)
FOLDER	:	Folder name (☞ pg. 34)
FILE	:	File name (☞ pg. 34)
DATE	:	Date the file was made
SIZE	:	Image size (IMAGE/E-MAIL CLIP only)
QUALITY	:	Picture quality (IMAGE only)
TIME	:	Playback time (E-MAIL CLIP/SOUND only)
PROTECT	:	When set to "ON", the file is protected from accidental erasure. (☞ pg. 31)



Information Screen

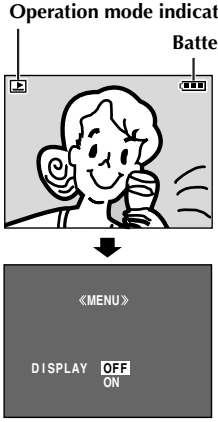
- Press the **INFO** Button again to close the Information Screen.

NOTE:

With images shot with other devices or processed on a PC, "QUALITY: – – –" will be displayed.

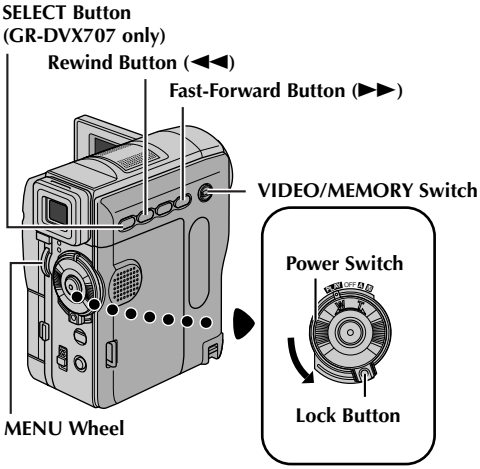
Removing On-Screen Display

1 Perform steps **1** – **6** of "Normal Playback Of Images" (☞ pg. 28).
2 Press the **MENU** Wheel in. The Menu Screen appears.
3 Rotate the **MENU** Wheel to select "DISPLAY", and press it. The Sub Menu appears.
4 Rotate the **MENU** Wheel to select "OFF", and press it. The operation mode indicator and battery indicator ( ) disappear.
- To display the indicators again, select "ON".



Protecting Files

The Protect mode helps prevent the accidental erasure of files.



1 Load a memory card. (☞ pg. 17)
2 Set the **VIDEO/MEMORY** Switch to "MEMORY".
3 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
4 Open the LCD monitor fully, or pull out the viewfinder fully.
- The type of file (IMAGE, E-MAIL CLIP or SOUND) which has been played back at the last time is displayed.

If you want to select another type of file, go to step **5**.
If not, go to step **7**.

5 Press **SELECT**. The MEMORY SELECT screen appears.
6 Rotate the **MENU** Wheel to select the desired type of file, and press it.
7 Press the **MENU** Wheel in. The Menu Screen appears.

CONTINUED ON NEXT PAGE

8 Rotate the **MENU** Wheel to select "PROTECT", and press it. The Sub Menu appears.



To protect the currently displayed file

9 Rotate the **MENU** Wheel to select "CURRENT", and press it. The PROTECT screen appears.

10 Press ◄◄ or ►► to select the desired file.



11 Rotate the **MENU** Wheel to select "EXECUTE", and press it.

- To cancel protection, select "RETURN".
- Repeat steps **10** and **11** for all files you want to protect.



To protect all files stored in the memory card

9 Rotate the **MENU** Wheel to select "PROT.ALL", and press it. The PROTECT screen appears.

10 Rotate the **MENU** Wheel to select "EXECUTE", and press it.

- To cancel protection, select "RETURN".

NOTES:

- *If the "⚿" mark appears, the currently displayed file is protected.*
- *When the memory card is initialised or corrupted, even protected files are deleted. If you do not want to lose important files, transfer them to a PC and save them.*

To Remove Protection

Before doing the following, perform steps **1** – **8** in "Protecting Files" (☞ pg. 31).

To remove protection from the currently displayed file

9 Rotate the **MENU** Wheel to select "CURRENT", and press it. The PROTECT screen appears.

10 Press ◄◄ or ►► to select the desired file.

11 Rotate the **MENU** Wheel to select "EXECUTE", and press it.

- To cancel selection, select "RETURN".
- Repeat steps **10** and **11** for all files you want to remove protection.

To remove protection from all files stored in the memory card

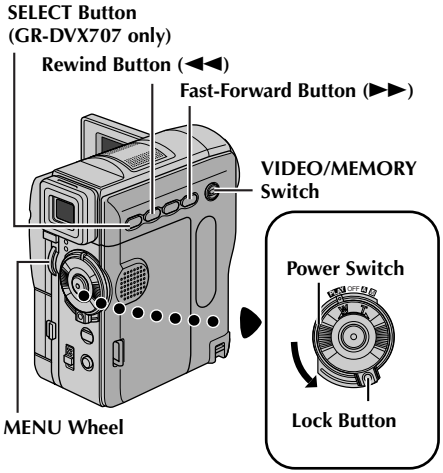
9 Rotate the **MENU** Wheel to select "CANC.ALL", and press it. The PROTECT screen appears.

10 Rotate the **MENU** Wheel to select "EXECUTE", and press it.

- To cancel selection, select "RETURN".

Deleting Files

Previously stored files can be deleted either one at a time or all at once.



1 Load a memory card. (☞ pg. 17)

2 Set the **VIDEO/MEMORY** Switch to "MEMORY".

3 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

4 Open the LCD monitor fully, or pull out the viewfinder fully.
- The type of file (IMAGE, E-MAIL CLIP or SOUND) which has been played back at the last time is displayed.

If you want to select another type of file, go to step **5**.
If not, go to step **7**.

5 Press **SELECT**. The MEMORY SELECT screen appears.

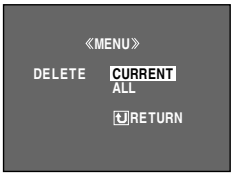
6 Rotate the **MENU** Wheel to select the desired type of file, and press it.

7 Press the **MENU** Wheel in. The Menu Screen appears.

8 Rotate the **MENU** Wheel to select "DELETE", and press it. The Sub Menu appears.

To delete the currently displayed file

9 Rotate the **MENU** Wheel to select "CURRENT", and press it. The DELETE screen appears.



10 Press ◄◄ or ►► to select the desired file.

11 Rotate the **MENU** Wheel to select "EXECUTE", and press it.
- To cancel deletion, select "RETURN".
- Repeat steps **10** and **11** for all files you want to delete.



NOTE:
If the "⊙⊸" mark appears, the selected file is protected and cannot be deleted.

To delete all files stored in the memory card

9 Rotate the **MENU** Wheel to select "ALL", and press it. The DELETE screen appears.

10 Rotate the **MENU** Wheel to select "EXECUTE", and press it.
- To cancel deletion, select "RETURN".

NOTES:
- *Protected files (☞ pg. 31) cannot be deleted with the above operation. To delete them, remove protection first.*
- *Once files are deleted, they cannot be restored. Check files before deleting.*

CAUTION:
Do not remove the memory card or perform any other operation (such as turning off the camcorder) during deletion. Also, be sure to use the provided AC Adapter, as the memory card may be corrupted if the battery becomes exhausted during deletion. If the memory card becomes corrupted, initialise it. (☞ pg. 36)

Making A New Folder

New still pictures you are going to take can be separated from previously shot pictures by resetting the file name to DVC00001; these new pictures will be stored in a new folder.

1. Load a memory card. (☞ pg. 17)
2. Set the **VIDEO/MEMORY** Switch to "MEMORY".
3. Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
4. Open the LCD monitor fully, or pull out the viewfinder fully.
   - The type of file (IMAGE, E-MAIL CLIP or SOUND) which has been played back at the last time is displayed.
5. If the video clip playback (E-MAIL CLIP, (☞ pg. 29)) or the digital sound playback (SOUND, (☞ pg. 29)) screen appears, press **SELECT**. The MEMORY SELECT screen appears.
6. Rotate the **MENU** Wheel to select "IMAGE", and press it. The image playback screen (IMAGE) appears.
7. Press the **MENU** Wheel in. The Menu Screen appears.
8. Rotate the **MENU** Wheel to select "NO. RESET", and press it. The NO. RESET screen appears.
9. Rotate the **MENU** Wheel to select "EXECUTE", and press it. The new folder (such as "101JVCGR") will be made and the file made of the next shot starts from DVC00001.

Folder and File names

Each time shooting takes place, a file name is made using a number which is larger by one than the largest number of the file names which are in use. Even if you delete an image file with a number in the middle of range, the number will not be used for a new shot; a gap will remain in the numerical sequence. If the file name reaches DVC09999, a new folder (such as "101JVCGR") will be made and the file name will start again from DVC00001.

Setting Print Information (DPOF Setting)

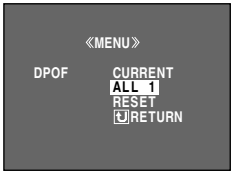
This camcorder is compatible with the DPOF (Digital Print Order Format) standard in order to support future systems such as automatic printing. You can select one of the 2 print information settings for images stored in the memory card: "To Print All Still Images (One Print For Each)" or "To Print By Selecting Still Images And Number Of Prints".

NOTES:

- *If you load a memory card already set as shown below in a printer compatible with DPOF, it will make prints of the selected still images automatically.*
- *To print images recorded on a tape, first dub them to a memory card. (☞ pg. 65)*

To Print All Still Images (One Print For Each)

1. Load a memory card. (☞ pg. 17)
2. Set the **VIDEO/MEMORY** Switch to "MEMORY".
3. Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
4. Open the LCD monitor fully, or pull out the viewfinder fully.
   - The type of file (IMAGE, E-MAIL CLIP or SOUND) which has been played back at the last time is displayed.
5. If the video clip playback (E-MAIL CLIP, (☞ pg. 29)) or the digital sound playback (SOUND, (☞ pg. 29)) screen appears, press **SELECT**. The MEMORY SELECT screen appears.
6. Rotate the **MENU** Wheel to select "IMAGE", and press it. The image playback screen (IMAGE) appears.
7. Press the **MENU** Wheel in. The Menu Screen appears.
8. Rotate the **MENU** Wheel to select "DPOF", and press it. The Sub Menu appears.
9. Rotate the **MENU** Wheel to select "ALL 1", and press it. The DPOF screen appears.



10 Rotate the **MENU** Wheel to select "EXECUTE", and press it. The normal playback screen appears.



- To cancel selection, rotate the **MENU** Wheel to select "RETURN", and press it.

To Print By Selecting Still Images And Number Of Prints

1 Perform steps **1** – **8** in "To Print All Still Images (One Print For Each)" (☞ pg. 34).

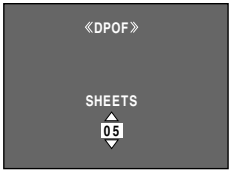
2 Rotate the **MENU** Wheel to select "CURRENT", and press it. The DPOF screen appears.



3 Press ◄◄ or ►► to select the desired file.

4 Rotate the **MENU** Wheel to select the number indication (00), and press it.

5 Select the number of prints by rotating the **MENU** Wheel and press it.



- Repeat steps **3** through **5** for the desired number of prints.
- The number of prints can be set up to 15.
- To correct the number of prints, select the image again and change the number.

6 Rotate the **MENU** Wheel to select "RETURN", and press it. The "SAVE?" appears.



- If you did not change any settings in step **3** through **5**, the Menu Screen reappears.

7 Rotate the **MENU** Wheel to select "EXECUTE" to save the setting you have just made, and press it.

- To cancel selection, rotate the **MENU** Wheel to select "CANCEL", and press it.

To Reset The Number Of Prints

1 Perform steps **1** – **8** in "To Print All Still Images (One Print For Each)" (☞ pg. 34).

2 Rotate the **MENU** Wheel to select "RESET", and press it. The DPOF screen appears.

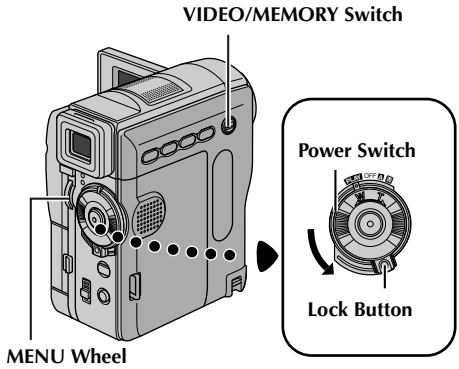
3 Rotate the **MENU** Wheel to select "EXECUTE", and press it. The normal playback screen appears.

- To cancel selection, rotate the **MENU** Wheel to select "RETURN", and press it.
- The number of prints is reset to 0 for all still images.

CAUTION:
While performing the above, never disconnect power, as this may cause the memory card to be corrupted.

Initialising A Memory Card

You can initialise a memory card anytime.
After initialising, all files and data stored in the memory card, including those which have been protected, are cleared.



1 Set the **VIDEO/MEMORY** Switch to "MEMORY".

2 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

3 Open the LCD monitor fully, or pull out the viewfinder fully.

4 Press the **MENU** Wheel in. The Menu Screen appears.



5 Rotate the **MENU** Wheel to select "FORMAT", and press it. The FORMAT screen appears.



6 Rotate the **MENU** Wheel to select "EXECUTE", and press it. The memory card is initialised.
- When initialisation is finished, "NO IMAGES STORED", "NO E-MAIL CLIP STORED" or "NO SOUND FILES" appears.
- To cancel initialisation, rotate the **MENU** Wheel to select "RETURN" and press it.

CAUTION:
Do not perform any other operation (such as turning off the camcorder) during initialisation. Also, be sure to use the provided AC Adapter, as the memory card may be corrupted if the battery becomes exhausted during initialisation. If the memory card becomes corrupted initialise it.

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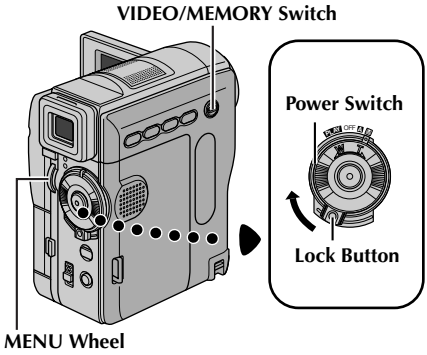
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Changing The Menu Settings

This camcorder is equipped with an easy-to-use, on-screen menu system that simplifies many of the more detailed camcorder settings. (☞ pg. 40 – 52)

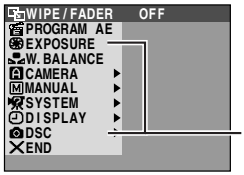


1 **For Video and D.S.C. (GR-DVX707/507 only) Recording Menus:**
- Set the **VIDEO/MEMORY** Switch to "VIDEO" or "MEMORY". (GR-DVX707/507 only)
- Set the Power Switch to "M" while pressing down the Lock Button located on the switch.

For Video Playback Menus:
- Set the **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)
- Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.
- For D.S.C. Playback Menus (GR-DVX707/507 only), refer to "D.S.C. PLAYBACK" (☞ pg. 28).

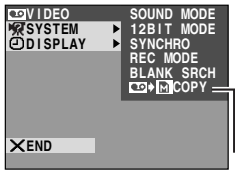
2 Open the LCD monitor fully, or pull out the viewfinder fully.

3 Press the **MENU** Wheel in. The Menu Screen appears.



Menu Screen for Video and D.S.C. Recording Menu

GR-DVX707/507 only



Menu Screen for Video Playback Menu

GR-DVX707/507 only

4 Rotate the **MENU** Wheel to select the desired function, and press it. The selected function menu appears.

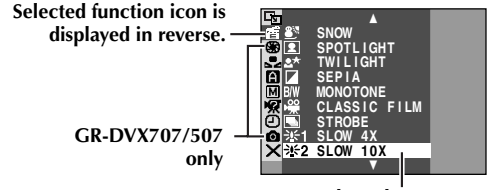
5 Setting procedure hereafter depends on the selected function.

Menus without Sub Menus

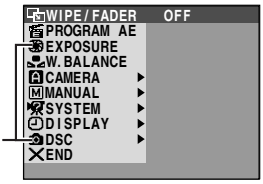
— WIPE/FADER, PROGRAM AE, EXPOSURE (GR-DVX707/507 only), W. BALANCE

1) Rotate the **MENU** Wheel to select the desired parameter.

Example: PROGRAM AE Menu



2) Press the **MENU** Wheel in. Selection is complete. The Menu Screen returns.
- Repeat the procedure if you wish to set other function menus.



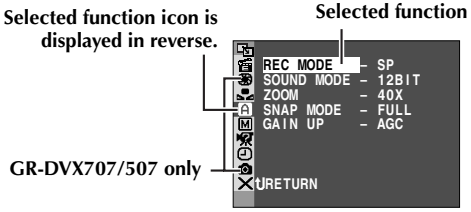
3) Press the **MENU** Wheel in again. The Menu Screen closes.

Menus with Sub Menus

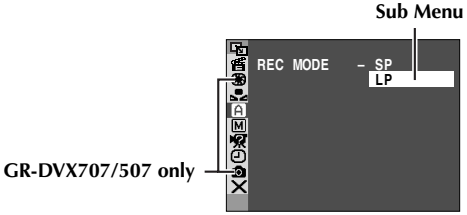
— [A] CAMERA, [M] MANUAL, SYSTEM, DISPLAY, DSC (GR-DVX707/507 only), VIDEO

1) Rotate the **MENU** Wheel to select the desired function and press it. The Sub Menu appears.

Example: [A] CAMERA Menu

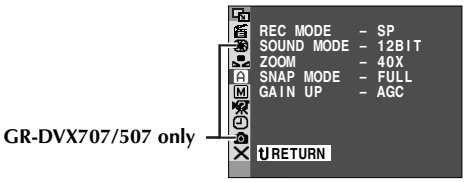


2) Rotate the **MENU** Wheel to select the desired parameter.



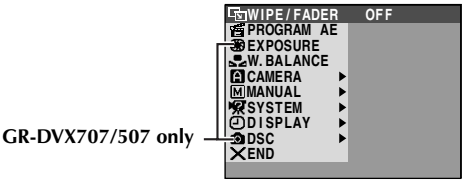
3) Press the **MENU** Wheel in. Selection is complete.

- Repeat the procedure if you wish to set other function menus.



4) Press the **MENU** Wheel in. The Menu Screen returns.

- Repeat the procedure if you wish to set other function menus.



5) Press the **MENU** Wheel in again. The Menu Screen closes.

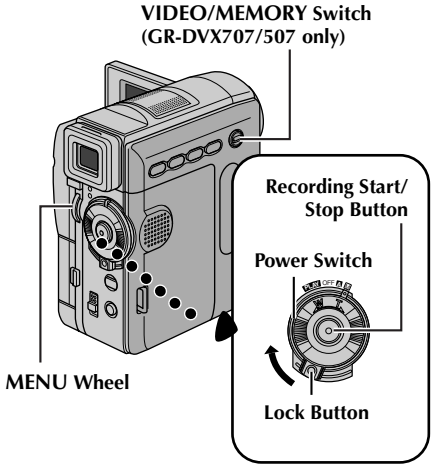
NOTES:

- *The "[A] CAMERA" settings are effective when the Power Switch is set to both "[A]" and "[M]". However, the menu settings can be changed only when the Power Switch is set to "[M]".*
- *The "[M] MANUAL" settings are effective only when the Power Switch is set to "[M]".*
- *The "SYSTEM" and "DISPLAY" functions which are set when the Power Switch is set to "[M]" are also applied when the Power Switch is set to "PLAY". The "CLOCK ADJ." menu only appears when the Power Switch is set to "[M]".*
- *The "DISPLAY" settings are effective even when the Power Switch is set to "[A]". However, the menu settings can be changed only when the Power Switch is set to "[M]".*
- *The date indication can also be turned on/off by pressing the **DISPLAY** Button on the remote control (provided). (☞ pg. 25, 62, 74)*

Wipe Or Fader Effects

These effects let you make pro-style scene transitions. Use them to spice up the transition from one scene to the next.

IMPORTANT:
Some Wipe/Fader Effects cannot be used with certain modes of Program AE with special effects. (☞ pg. 42) If an unusable Wipe/Fader Effect is selected, its indicator blinks in blue or goes out.



Wipe or Fader works when video recording is started or stopped.

1. Set the **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)
2. Set the Power Switch to "M" while pressing down the Lock Button located on the switch.
3. Open the LCD monitor fully, or pull out the viewfinder fully.
4. Set "WIPE/FADER" to the desired mode. (☞ pg. 38)
   - The selected effect indicator appears.
5. Press the Recording Start/Stop Button to start or stop recording. The selected Fade-in/out or Wipe-in/out effect works.

To deactivate the selected effect…
Select "OFF" in step **4**.

NOTES:
- *You can select other effects for "WIPE/FADER" during recording.*
- *You can extend the length of a Wipe or Fader by pressing and holding the Recording Start/Stop Button.*

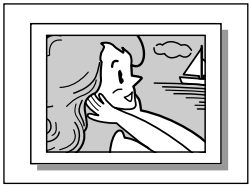
WIPE/FADER

(▭ : Factory-preset)

Indicator	Parameter	Description
—	**OFF**	Disables effects.
WH	**FADER–WHITE**	Fade in or out with a white screen.
BK	**FADER–BLACK**	Fade in or out with a black screen.
B.W	**FADER–B.W**	Fade in to a colour screen from a black and white screen, or fade out from colour to black and white.
	**WIPE–CORNER**	Wipe in on a black screen from the upper right to the lower left corner, or wipe out from lower left to upper right, leaving a black screen.
	**WIPE–WINDOW**	The scene starts in the centre of a black screen and wipes in toward the corners, or comes in from the corners, gradually wiping out to the centre.
	**WIPE–SLIDE**	Wipe in from right to left, or wipe out from left to right.
	**WIPE–DOOR**	Wipe in as the two halves of a black screen open to the left and right, revealing the scene, or wipe out and the black screen reappears from left and right to cover the scene.
	**WIPE–SCROLL**	The scene wipes in from the bottom to the top of a black screen, or wipes out from top to bottom, leaving a black screen.
	**WIPE–SHUTTER**	Wipe in from the centre of a black screen toward the top and bottom, or wipe out from the top and bottom toward the centre leaving a black screen.

Snapshot mode for video recording

For details on the procedure, refer to "Snapshot (For Video Recording)" (☞ pg. 53).

SNAP MODE	**FULL**	Snapshot mode with no frame	
	PIN-UP	Pin-Up mode	
	FRAME	Snapshot mode with frame	

There is the sound effect of a shutter closing.

Gain up

GAIN UP	**OFF**	Allows you to shoot dark scenes with no picture brightness adjustment.
	AGC	The overall appearance may be grainy, but the image is bright.
	AUTO **A**	The shutter speed is automatically adjusted (1/25 – 1/200 sec.). Shooting a subject in low or poor lighting at 1/25 sec. shutter speed provides a brighter image than in the AGC mode, but the subject's movements are not smooth or natural. The overall appearance may be grainy. While the shutter speed is being automatically adjusted, "**A**" is displayed.

Manual Menu

MANUAL ([ ] : Factory-preset)

Digital Image Stabilisation

DIS	**OFF**	To compensate for unstable images caused by camera-shake, particularly at high magnification.
	ON	**NOTES:** ● *Accurate stabilisation may not be possible if hand shake is excessive, or under the following conditions:* *• When shooting subjects with vertical or horizontal stripes.* *• When shooting dark or dim subjects.* *• When shooting subjects with excessive backlighting.* *• When shooting scenes with movement in various directions.* *• When shooting scenes with low-contrast backgrounds.* ● *Switch off this mode when recording with the camcorder on a tripod.* ● *The "" indicator blinks or goes out if the Stabiliser cannot be used.*

Maximum telephoto setting

Usually the distance to a subject where the lens is in focus depends on the zoom magnification. Unless there is a distance more than 1 m to the subject, the lens is out of focus at the maximum telephoto setting.

TELE MACRO	**OFF**	Disables the function.
	ON	When set to "ON", you can shoot a subject as large as possible at a distance of approx. 60 cm. ● Depending on the zoom position, the lens may go out of focus.

Wide mode

WIDE MODE	**OFF**	Records with no change in the screen ratio. For playback on a TV with a normal screen ratio.
	CINEMA*	Inserts black bands at the top and bottom of the screen. The indicator appears. During playback on wide-screen TVs, the black bands at the top and bottom of the screen are cut and the screen ratio becomes 16:9. When using this mode, refer to your wide-screen TV's instruction manual. During playback/recording on 4:3 TVs/LCD monitor/viewfinder, black bands are inserted at the top and bottom of the screen and the image appears like a letter boxed 16:9 movie.
	SQUEEZE*	For playback on TVs with an aspect ratio of 16:9. Naturally expands the image to fit the screen without distortion. The indicator appears. When using this mode, refer to your wide-screen TV's instruction manual. During playback/recording on 4:3 TVs/LCD monitor/viewfinder, the image is elongated vertically.
	S.WIDE* **(GR-DVX707 only)**	The indicator appears. The zoom range is extended beyond the maximum optical zoom wide angle range. This mode's wide angle setting is equivalent to using a 0.9X wide conversion lens. Zooming is possible from 0.9X to 10X. This mode is suitable for shooting in a small room.

* For GR-DVX707/507: Available only when the **VIDEO/MEMORY** Switch is set to "VIDEO".

Wind cut

WIND CUT	**OFF**	Disengages the function.
	ON	Helps cut down on noise created by wind. The "" indicator appears. The quality of the sound will change. This is normal.

Snapshot flash mode (GR-DVX707/507 only)

FLASH	**AUTO**	Refer to "Snapshot Flash (GR-DVX707/507 only)" (☞ pg. 54).
	AUTO	
	ON	
	OFF	

Flash brightness adjustment (GR-DVX707/507 only)

FLASH ADJ.	**±3**	Refer to "Flash Brightness Adjustment (GR-DVX707/507 only)" (☞ pg. 54).

System Menu

SYSTEM ([ ] : Factory-preset)

Beep, melody and shutter sound

BEEP	**OFF**	Even though not heard while shooting, shutter sound is recorded on the tape.
	BEEP	The beep sounds when the power is turned on or off, and at the beginning and end of recording. It also activates the shutter sound effect. (☞ pg. 27, 53)
	MELODY	Instead of a beep, a melody sounds when any operation is performed. It also activates the shutter sound effect. (☞ pg. 27, 53)

Tally lamp setting

TALLY	**OFF**	The tally lamp remains off at all times.
	ON	The tally lamp comes on to signal the start of recording.

ID number setting (GR-DVX407/400 only)

ID NUMBER	This number is necessary when connecting the camcorder to a device such as a computer using the J terminal (JLIP) or PC connector. The number range from 01 to 99. Factory setting is 06.

Automatic demonstration mode

Demonstrates certain functions such as Program AE with special effects, etc., and can be used to confirm how these functions operate. (☞ pg. 8)

DEMO MODE	**OFF**	Automatic demonstration will not take place.
	ON	Demonstrates certain functions such as Program AE with special effects, etc., and can be used to confirm how these functions operate. Demonstration starts in the following cases: • When the Menu Screen is closed after "DEMO MODE" is turned "ON". • With "DEMO MODE" set to "ON", if there is no operation for about 3 minutes after the Power Switch is set to "A" or "M". Performing any operation during the demonstration stops the demonstration temporarily. If no operation is performed for more than 3 minutes after that, the demonstration will resume. **NOTES:** ● *If a cassette is in the camcorder, the demonstration cannot be turned on.* ● *"DEMO MODE" remains "ON" even if the camcorder power is turned off.* ● *If "DEMO MODE" remains "ON", some functions will not be available. After viewing demo, set to "OFF".*

Resetting menu settings

CAM RESET	**CANCEL**	Does not reset the settings to the factory-preset.
	EXECUTE	Resets all settings to the factory-preset.

Sound input (GR-DVX707 only)

SOUND IN	**MIC**	Enables sound input from camcorder's stereo microphone, when Audio Dubbing (☞ pg. 70) is executed. "MIC" appears on the Audio Dubbing screen.
	D.SOUND	Enables sound effect input recorded on the provided memory card, when Audio Dubbing (☞ pg. 71) is executed. "D.SOUND" appears on the Audio Dubbing screen.

Display Menu

DISPLAY ([ ] : Factory-preset)

Display setting

ON SCREEN	**LCD**	Keeps the camcorder's display (except the date, time and time code) from appearing on the connected TV screen.
	LCD/TV	Makes the camcorder's display appear on screen when the camcorder is connected to a TV.

Date and time display setting

DATE/TIME	**OFF**	The date/time does not appear.
	AUTO	Displays the date/time for approx. 5 seconds in the following cases: ● When the Power Switch is set from "OFF" to "A" or "M". ● When playback starts. The camcorder displays the date/time when scenes are recorded. ● When the date is changed during playback.
	ON	The date/time is always displayed.

Time code setting

TIME CODE	**OFF**	Time code is not displayed.
	ON	Time code is displayed on the camcorder and on the connected TV. Frame numbers are not displayed during recording.

Clock adjustment

CLOCK ADJ.	Allows you to set the current date and time. (☞ pg. 15)

DSC Menu (GR-DVX707/507 only)

DSC ([ ] : Factory-preset)

Picture quality

QUALITY	**FINE** / **STANDARD**	The Picture Quality mode can be selected to best match your needs. Two Picture Quality modes are available: FINE and STANDARD (in order of quality). **NOTE:** *The number of storable images depends on the selected picture quality as well as the composition of the subjects in the images and the type of memory card being used.*

Image size

IMAGE SIZE	**640 x 480*** / **1024 x 768**** / **1280 x 960 (GR-DVX707 only)**	The Image Size mode can be selected to best match your needs. * GR-DVX507: Factory preset is 640 x 480. ** GR-DVX707: Factory preset is 1024 x 768. **NOTE:** *The settings can be changed only when the **VIDEO/MEMORY** Switch is set to "MEMORY".*

Approximate Number of Storable Images
The numbers in parentheses are for GR-DVX507.

Image Size/Picture Quality	SD Memory Card					MultiMediaCard		
	8 MB**	8 MB	16 MB	32 MB	64 MB	8 MB*	16 MB	32 MB
640 x 480/FINE	39	46 (45)	98 (95)	205 (205)	405 (405)	50 (55)	105 (105)	210 (215)
640 x 480/STANDARD	134	150 (160)	295 (295)	625 (625)	1215 (1215)	160 (190)	320 (320)	640 (645)
1024 x 768/FINE	17	20 (20)	46 (45)	98 (95)	190 (190)	25 (24)	50 (48)	100 (100)
1024 x 768/STANDARD	55	66 (65)	145 (145)	310 (310)	605 (605)	80 (75)	160 (160)	320 (320)
1280 x 960/FINE***	11	12	28	62	120	16	32	64
1280 x 960/STANDARD***	37	44	98	205	405	50	100	200

* Provided with GR-DVX507 only
** Provided with GR-DVX707 only (12 sound effects pre-stored)
*** GR-DVX707 only

Recording media selection

REC SELECT	📼	When Snapshot recording is performed with the **VIDEO/MEMORY** Switch set to "VIDEO", still images are recorded only onto the tape.
	➡📼/➡Ⓜ	When Snapshot recording is performed with the **VIDEO/MEMORY** Switch set to "VIDEO", still images are recorded not only onto the tape but also in the memory card (640 x 480 pixels). In this mode, the "SNAP MODE" selection in CAMERA Menu is also applicable to memory card recording.

Video Menu

VIDEO ([ ] : Factory-preset)

Playback sound

During tape playback, the camcorder detects the sound mode in which the recording was made, and plays the sound back. Select the type of sound to accompany your playback picture. According to the menu access explanation on page 38, select "SOUND MODE" or "12BIT MODE" from the Menu Screen and set it to the desired parameter.

NOTES:

- *The "SOUND MODE" setting is available for both 12-bit and 16-bit sound. (In previous models' functions, "12-bit" is called "32 kHz" and "16-bit" is called "48 kHz".)*
- *The camcorder cannot detect the sound mode in which the recording was made during fast-forward or rewind. During playback the sound mode is displayed in the upper left corner.*

SOUND MODE	**STEREO**	Sound is output on both "L" and "R" channels in stereo.
	SOUND L	Sound from the "L" channel is output in stereo.
	SOUND R	Sound from the "R" channel is output in stereo.
12BIT MODE	**MIX**	Original and dubbed sounds are combined and output in stereo on both "L" and "R" channels in stereo.
	SOUND 1	Original sound is output on both "L" and "R" channels in stereo.
	SOUND 2	Dubbed sound is output on both "L" and "R" channels in stereo.

Synchro adjustment

SYNCHRO	**±0.0**	Refer to "For More Accurate Editing" (☞ pg. 77).

Recording mode

REC MODE	**SP**	Allows you to set the video recording mode (SP or LP) depending on your preference. It is recommended you use "REC MODE" in VIDEO Menu when using this camcorder as a recorder during digital dubbing (GR-DVX707/507/407 only). (☞ pg. 64) **NOTE:** *"REC MODE" can be set when the Power Switch is set to "PLAY" or "M".*
	LP	

Blank search

BLANK SRCH	**CANCEL**	Helps find a blank portion of tape when you want to record from the middle of a tape. (☞ pg. 23)
	EXECUTE	

Dubbing from tape to memory card

COPY	**OFF**	Enables snapshots to be taken during video playback.
	ON	Enables dubbing of images recorded on a tape to a memory card. (☞ pg. 65)

System Menu

SYSTEM

(▭ : Factory-preset)

BEEP	**OFF**	☞ pg. 48	Each setting is linked with "SYSTEM", which appears when the Power Switch is set to "M". (☞ pg. 38) The parameters are the same as in the description on page 48.
	BEEP		
	MELODY		
TALLY	**OFF**	☞ pg. 48	
	ON		
ID NUMBER (GR-DVX407/ 400 only)		☞ pg. 48	
DEMO MODE	**OFF**	☞ pg. 48	
	ON		

Display Menu

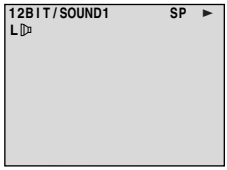
DISPLAY

(▭ : Factory-preset)

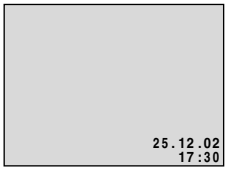
ON SCREEN	**LCD**	☞ pg. 49	Each setting is linked with "DISPLAY", which appears when the Power Switch is set to "M". (☞ pg. 38) The parameters are the same as in the description on page 49. **NOTE:** *The date indication can also be turned on/off by pressing the **DISPLAY** Button on the remote control (provided). (☞ pg. 25, 62, 74)*
	LCD/TV		
DATE/TIME	**OFF**	☞ pg. 49	
	AUTO		
	ON		
TIME CODE	**OFF**	☞ pg. 49	
	ON		

Display

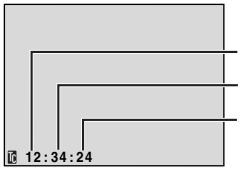
ON SCREEN Setting:
For playback sound, tape speed and tape running during video playback.



DATE/TIME Setting:
For date/time.

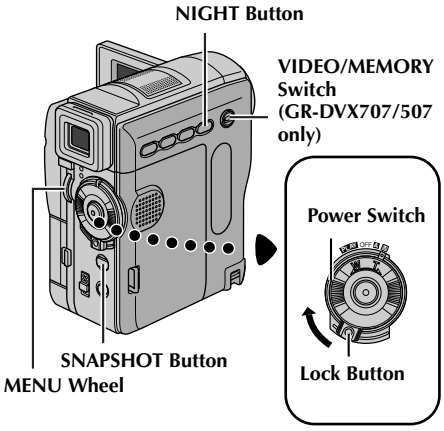


TIME CODE Setting:
For time code.



*** 25 frames = 1 second**

Night-Scope



Makes dark subjects or areas even brighter than they would be under good natural lighting. Although the recorded image is not grainy, it may look as if it is strobing due to the slow shutter speed.

1. Set the Power Switch to "M" while pressing down the Lock Button located on the switch.
2. Open the LCD monitor fully or pull out the viewfinder fully.
3. Press **NIGHT** so that the Night-Scope indicator "00" appears.
   - The shutter speed is automatically adjusted to provide up to 30 times sensitivity.
   - "A" appears beside "00" while the shutter speed is being automatically adjusted.

To deactivate Night-Scope…
Press **NIGHT** again so that the Night-Scope indicator disappears.

NOTES:
- *During Night-Scope, the following functions or settings cannot be activated and its indicator blinks or goes out:*
  - *Some modes of "Program AE With Special Effects" (☞ pg. 42).*
  - *"Snapshot Flash (GR-DVX707/507 only)" (☞ pg. 54).*
  - *"GAIN UP" in CAMERA Menu. (☞ pg. 45)*
  - *"DIS" in MANUAL Menu. (☞ pg. 46)*
- *During Night-Scope, it may be difficult to bring the camcorder into focus. To prevent this, use of a tripod is recommended.*

Snapshot (For Video Recording)

This feature lets you record still images that look like photographs onto a tape.

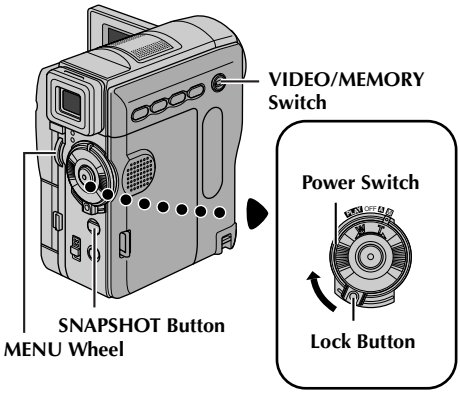
1. Set the **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)
2. Set the Power Switch to "M" while pressing down the Lock Button located on the switch.
3. Open the LCD monitor fully, or pull out the viewfinder fully.
4. Set "SNAP MODE" to the desired mode. (☞ pg. 38, 45)
5. Press **SNAPSHOT**.
   - The "PHOTO" indication appears and a still image will be recorded for approx. 6 seconds, then the camcorder re-enters the Record-Standby mode.
   - You can perform Snapshot also during recording. A still image will be recorded for approx. 6 seconds, then the normal recording resumes.
   - Regardless of the Power Switch position ("A" or "M"), Snapshot recording takes place using the selected Snapshot mode.

NOTES:
- *To remove the shutter sound, refer to "BEEP" on page 48.*
- *If Snapshot recording is not possible, the "PHOTO" indication blinks when **SNAPSHOT** is pressed.*
- *If Program AE with special effects (☞ pg. 42) is engaged, certain modes of Program AE with special effects are disabled during Snapshot recording. In such a case, the icon blinks.*
- *If **SNAPSHOT** is pressed when "DIS" is set to "ON" (☞ pg. 46), the Stabiliser will be disabled.*
- *During playback as well, all snapshot modes are available when "tape ➡ M COPY" is set to "OFF" in VIDEO Menu. (☞ pg. 51) However, the shutter sound is not heard.*
- *During Snapshot recording, the image displayed in the viewfinder may be partially missing. However, there is no effect in the recorded image.*
- *When a cable is connected to the AV connector, the shutter sound is not heard from the speaker, however it is recorded onto the tape.*

Motor Drive Mode

Keeping **SNAPSHOT** pressed in step **5** provides an effect similar to serial photography. (Interval between still images: approx. 1 second)
- The Motor Drive mode is disabled when "REC SELECT" is set to "➡ tape/➡ M". (☞ pg. 38, 50)

Snapshot Flash (GR-DVX707/507 only)



The flash can be used when a snapshot is taken in Record-Standby mode. (☞ pg. 27, 53)

- When the Power Switch is set to "A", the flash automatically fires if it is dark (ϟ appears).
- When the Power Switch is set to "M", you can select the flash setting as follows:

AUTO : Fires automatically if it is dark (ϟ appears).
AUTO ◉ : Fires automatically if it is dark (ϟ ◉ appears) and reduces the Red-Eye effect in the subject's eyes.
ON : Always fires.
OFF : Will not fire.

- For the setting, refer to "Changing The Menu Settings" (☞ pg. 38).

If "AUTO ◉" is selected...

The ◉ Red-Eye reduction indicator lights. Press **SNAPSHOT**. The flash fires twice. The first flash is for reduction of the human eye's red reflection and the second flash is for the actual recording.

NOTES:

- *Do not fire the flash at a person at short range.*
- *The flash does not fire when the flash is set to "OFF" or when Night-Scope mode (☞ pg. 53) is engaged, and also when the battery remaining power is low. Moreover, the flash does not fire when it is set to "AUTO" with GAIN UP set to "OFF" (☞ pg. 45) and with Program AE with special effects set to "TWILIGHT". (☞ pg. 42)*
- *Although images shot with a flash tend to look whiter than they actually are, to compensate for this the camcorder automatically darkens the picture when using the flash. When shooting a subject at a distance where the flash light cannot reach (over approx. 2 m), set the flash to "OFF" to prevent the picture from becoming too dark or becoming too tinted.*
- *The colour tone changes depending on the background lighting conditions, such as under fluorescent or halogen lamps.*
- *While charging the flash, ϟ blinks and the flash will not fire. Although noise may appear, this is not a malfunction and is not recorded. It can take up to 10 seconds to charge the flash.*

Flash Brightness Adjustment (GR-DVX707/507 only)

When a snapshot (☞ pg. 27, 53) is taken in the dark the camcorder fires the flash and adjusts the brightness automatically. You can also adjust the flash brightness manually. When you find that the snapshots you took look too bright or too dark, adjust it manually.

1 Select "FLASH ADJ." in MANUAL Menu, and press the **MENU** Wheel in.
- The parameter appears.

2 To intensify the flash, rotate the **MENU** Wheel towards "+". To weaken the flash, rotate the **MENU** Wheel towards "–".
- Adjustment range: –3 to +3.

3 Press the **MENU** Wheel in. Rotate the **MENU** Wheel to select "↩RETURN", and press it twice to close the Menu Screen.

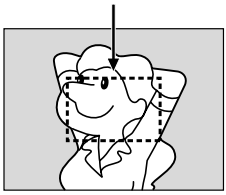
NOTE:

*When you change the subject you are shooting or the shooting location, set it back to ±0 as described in step **2** and take a snapshot to check the flash brightness. After doing this adjust to your desired brightness.*

Auto Focus

The camcorder's Full Range AF system offers continuous shooting ability from close-up (as close as approx. 5 cm to the subject) to infinity.

Focus detection zone



However, correct focus may not be obtainable in the situations listed below (in these cases perform "Manual Focus"):

- When two subjects overlap in the same scene.
- When illumination is low.*
- When the subject has no contrast (difference in brightness and darkness), such as a flat, one-colour wall, or a clear, blue sky.*
- When a dark object is barely visible in the viewfinder.*
- When the scene contains minute patterns or identical patterns that are regularly repeated.
- When the scene is affected by sunbeams or light reflecting off the surface of a body of water.
- When shooting a scene with a high-contrast background.

* The following low-contrast warnings appear blinking: ▲, ◄, ► and 👤

NOTES:

- *If the lens is smeared or blurred, accurate focusing is not possible. Keep the lens clean. (☞ pg. 91) When condensation occurs, wipe with a soft cloth or wait for it to dry naturally.*
- *When shooting a subject close to the lens, zoom out first. (☞ pg. 20) If zoomed-in in the auto focus mode, the camcorder may automatically zoom out depending on the distance between the camcorder and the subject. This will not occur when "TELE MACRO" is set to "ON". (☞ pg. 38, 46)*

Manual Focus

NOTE:

If you are using the viewfinder, you should already have performed "Viewfinder Adjustment" (☞ pg. 12).

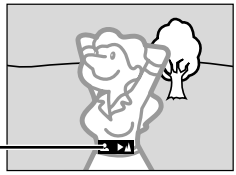
1 Set the Power Switch to "M" while pressing down the Lock Button located on the switch.

2 Press **FOCUS**. The manual focus indicator appears.

3 To focus on a further subject, rotate the **MENU** Wheel towards "+". The "►" indicator appears and blinks.

While focusing on a further subject

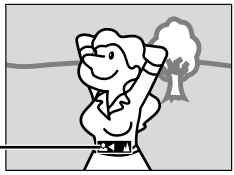
Manual focus indicator



To focus on a nearer subject, rotate the **MENU** Wheel towards "–". The "◄" indicator appears and blinks.

While focusing on a nearer subject

Manual focus indicator

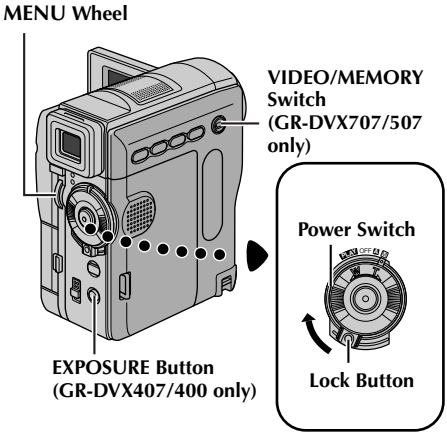


4 Press the **MENU** Wheel in. Focus adjustment is complete.

- To reset to Auto Focus, press **FOCUS** twice or set the Power Switch to "A".
- If **FOCUS** is pressed once, the camcorder will enter the focus adjustment mode again.

NOTES:

- *Be sure to focus the lens in the maximum telephoto position when you use the Manual Focus mode. If you focus in on a subject in the wide-angle position, sharply focused images cannot be obtained when zoomed up because the depth-of-field is reduced at longer focal lengths.*
- *When the focus level cannot be adjusted any further or closer, "▲" or "👤" will blink.*



Exposure Control

Manual exposure control is recommended in the following situations:
- When shooting using reverse lighting or when the background is too bright.
- When shooting on a reflective natural background such as at the beach or when skiing.
- When the background is overly dark or the subject is bright.

Before starting, perform the procedures listed below:
- Set the Power Switch to "M" while pressing down the Lock Button located on the switch.
- Open the LCD monitor fully, or pull out the viewfinder fully.

1 **For GR-DVX707/507:**
Set "EXPOSURE" to "MANUAL". (☞ pg. 43)

For GR-DVX407/400:
Press **EXPOSURE**.
- The exposure control indicator appears.

2 To brighten the image, rotate the **MENU** Wheel towards "+". To darken the image, rotate the **MENU** Wheel towards "–". (maximum ±6)
- +3 exposure has the same effect as the backlight compensation. (☞ pg. 57)
- –3 exposure has the same effect as when "PROGRAM AE" is set to "SPOTLIGHT". (☞ pg. 42)

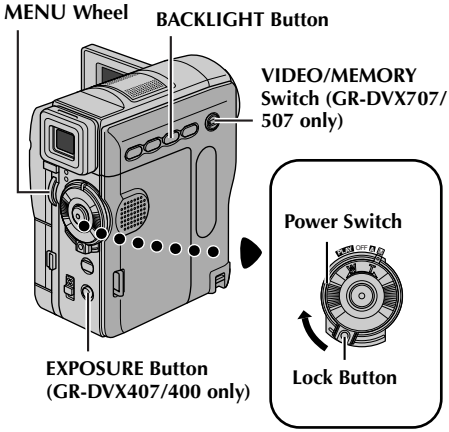
3 Press the **MENU** Wheel in. Exposure adjustment is complete.

To return to automatic exposure control...
For GR-DVX707/507:
Set "EXPOSURE" to "AUTO". (☞ pg. 43) Or, set the Power Switch to "A".

For GR-DVX407/400:
Press **EXPOSURE** twice. Or, set the Power Switch to "A".
- If **EXPOSURE** is pressed once, the camcorder will enter the exposure control mode again.

NOTE:
You cannot use the manual exposure control at the same time when "PROGRAM AE" is set to "SPOTLIGHT" or "SNOW" (☞ pg. 38, 42), or with the backlight compensation. (☞ pg. 57)

Iris Lock



Like the pupil of the human eye, the iris contracts in well-lit environments to keep too much light from entering, and dilates in dim environments to allow in more light.
Use this function in the following situations:
- When shooting a moving subject.
- When the distance to the subject changes (so its size in the LCD monitor or the viewfinder changes), such as when the subject is backing away.
- When shooting on a reflective natural background such as at the beach or when skiing.
- When shooting objects under a spotlight.
- When zooming.

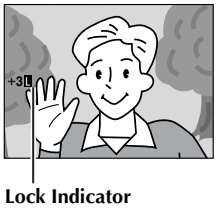
When the subject is close, keep the iris locked. Even when the subject moves away from you, the image will not darken or brighten.

Before starting, perform the procedures listed below:
- Set the Power Switch to "M" while pressing down the Lock Button located on the switch.
- Open the LCD monitor fully, or pull out the viewfinder fully.

1 **For GR-DVX707/507:**
Set "EXPOSURE" to "MANUAL". (☞ pg. 43)

For GR-DVX407/400:
Press **EXPOSURE**.
- The exposure control indicator appears.

2 Adjust zoom so that the subject fills the LCD monitor or the viewfinder, then press and hold the **MENU** Wheel for over 2 seconds. The exposure control indicator and the "L" indication appear.
Press the **MENU** Wheel in. The "L" indication changes to "L" and the iris is locked.



To return to automatic iris control...
For GR-DVX707/507:
Set "EXPOSURE" to "AUTO". (☞ pg. 43) Or, set the Power Switch to "A".

For GR-DVX407/400:
Press **EXPOSURE** twice. Or, set the Power Switch to "A".
- The exposure control indicator and "L" disappear.

To lock the exposure control and the iris…
After step **1** of "Exposure Control", adjust the exposure by rotating the **MENU** Wheel. Then lock the iris in step **2** of "Iris Lock". For automatic locking, select "AUTO" or press **EXPOSURE** twice in step **1**. The iris becomes automatic after about 2 seconds.

Backlight Compensation

Backlight compensation brightens the subject quickly.
Press **BACKLIGHT**. The indicator is displayed and the subject is brightened. If pressed again, disappears and the brightness returns to the previous level.
- Using **BACKLIGHT** Button may cause the light around the subject to become too bright and the subject to become white.
- Backlight compensations is also available when the Power Switch is set to "A".

White Balance Adjustment

The white balance that refers to the correctness of colour reproduction under various lighting. If the white balance is correct, all other colours will be accurately reproduced.
The white balance is usually adjusted automatically. However, more advanced camcorder operators control this function manually to achieve a more professional colour/tint reproduction.

—	**AUTO**	White balance is adjusted automatically.
	MWB	Adjust the white balance manually when shooting under various types of lighting. (☞ "Manual White Balance Adjustment")
	FINE	Outdoors on a sunny day.
	CLOUD	Outdoors on a cloudy day.
	HALOGEN	A video light or similar type of lighting is used.

([ ] : Factory-preset)

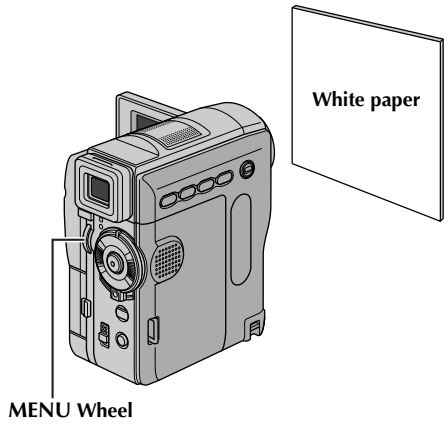
- For the setting, refer to "Changing The Menu Settings" (☞ pg. 38).
- The selected mode indicator except "AUTO" appears.

To return to automatic white balance…
Set "W.BALANCE" to "AUTO". (☞ pg. 38) Or, set the Power Switch to "A".

NOTE:
White balance cannot be used when "PROGRAM AE" is set to "SEPIA" or "MONOTONE". (☞ pg. 42)

Manual White Balance Adjustment

Adjust the white balance manually when shooting under various types of lighting.



Before starting, perform the procedures listed below:
- Set the Power Switch to "M" while pressing down the Lock Button located on the switch.
- Open the LCD monitor fully, or pull out the viewfinder fully.

1 Set "W.BALANCE" to "MWB". (☞ pg. 38, 43)
- The indication blinks slowly.

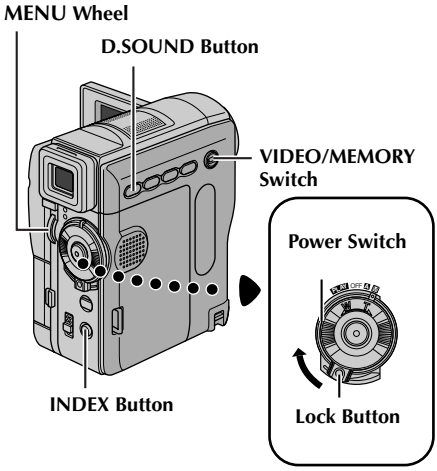
2 Hold a sheet of plain white paper in front of the subject. Adjust zoom or position yourself so that the white paper fills the screen.

3 Press the **MENU** Wheel in until begins blinking rapidly.
When the setting is completed, resumes normal blinking.

4 Press the **MENU** Wheel in twice. The Menu Screen closes and the Manual White Balance indicator is displayed.

NOTES:
- *In step **2**, it may be difficult to focus on the white paper. In such a case, adjust focus manually. (☞ pg. 55)*
- *A subject can be shot under various types of lighting conditions indoors (natural, fluorescent, candlelight, etc.). Because the colour temperature is different depending on the light source, the subject tint will differ depending on the white balance settings. Use this function for a more natural result.*
- *Once you adjust white balance manually, the setting is retained even if the power is turned off or the battery removed.*

Recording Digital Sound Effects (GR-DVX707 only)



The sound effects pre-stored in the provided memory card can be dubbed onto a tape.

1 Load a cassette. (☞ pg. 16)

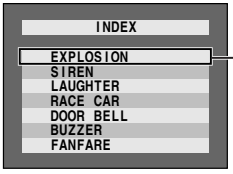
2 Load the provided memory card. (☞ pg. 17)

3 Set the **VIDEO/MEMORY** Switch to "VIDEO".

4 Set the Power Switch to "A" or "M" while pressing down the Lock Button located on the switch.

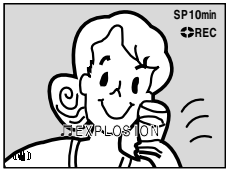
5 Open the LCD monitor fully, or pull out the viewfinder fully.

6 Press **INDEX**. The Index Screen for sound effects (☞ pg. 30) appears.



7 Rotate the **MENU** Wheel to select the desired sound effect.

8 Press the **MENU** Wheel in. Selection is complete.



- Pressing **D.SOUND** starts playback of the currently selected sound effect. You can check it without recording it onto the tape. Press **D.SOUND** again to stop the sound effect playback midway.

9 Press **D.SOUND** during recording. The selected sound effect indication with a "♫" mark appears moving and the sound effect is recorded onto the tape.

- The sound effect cannot be heard from the speaker during recording. Connect a headphone to the headphone connector to hear the sound effect.

To cancel recording the sound effect midway...
Press **D.SOUND** again. The camcorder stops recording the sound effect and the sound effect indication disappears.

Downloading sound data from Web Site

You can download sound data available at our Web Site (see below for URL) and transfer them from your PC to the memory card using a USB cable to create more sound effects.

http://www.jvc-victor.co.jp/english/download/d-sound/index.html

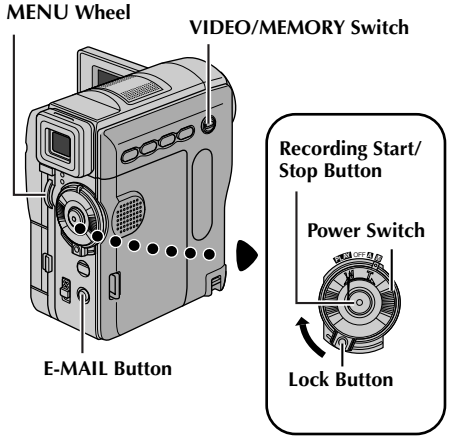
- You can also use the PC card adapter CU-VPSD60, floppy adapter CU-VFSD50 or USB reader/writer CU-VUSD70 to transfer sound data from a PC to the memory card.
- Sound data should be copied into the memory card's DCSD\100JVCGR folder.
- The file names should be in numerical sequence starting from DVC00001.mp3. If you are using the provided memory card, file names should be from DVC00013.mp3 since 12 sound effects are pre-stored as DVC00001.mp3 through DVC00012.mp3.

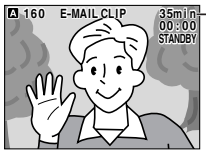
NOTES:

- *Sound effects can also be used for Audio Dubbing. (☞ pg. 71)*
- *Sound effects can also be selected during D.S.C. playback mode. (☞ pg. 29, 30)*
- *Sound effects created on a PC can be transferred to a memory card by copying them into the memory card's sound folder with the specified file name. For details, refer to the instruction manual of the provided software. However, some sound (effects) created on a PC cannot be played back with this camcorder.*

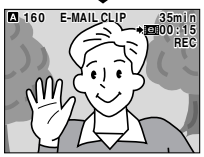
E-Mail Clip Recording (GR-DVX707 only)

You can make video clips in 160 x 120 pixels from real-time camera image or recorded video footage and store them in a memory card as files which can be conveniently sent via E-Mail.





Remaining time



Shooting starts when the Recording Start/Stop Button is pressed.



Shooting stops when the Recording Start/Stop Button is pressed again.

Recording is complete.

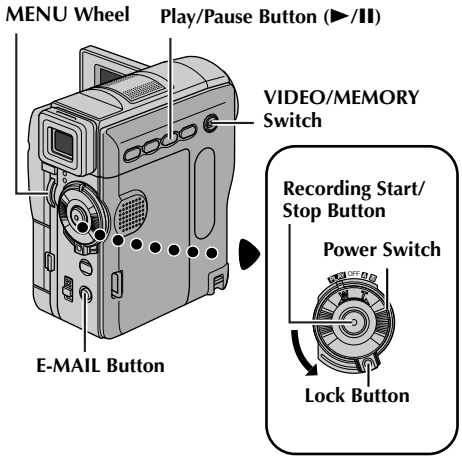
To make video clips from real-time camera image

1. Load a memory card. (☞ pg. 17)
2. Set the **VIDEO/MEMORY** Switch to "MEMORY".
3. Set the Power Switch to "A" or "M" while pressing down the Lock Button located on the switch.
4. Press **E-MAIL** to engage the E-Mail Clip Record-Standby mode.
   - "E-MAIL CLIP" appears.
5. Press the Recording Start/Stop Button to start recording.
6. Press the Recording Start/Stop Button to stop recording.
   - "COMPLETED" is displayed, then the camcorder re-enters the E-Mail Clip Record-Standby mode.
7. Press **E-MAIL** to end E-Mail Clip Recording. The normal screen reappears.

To view video clips stored in a memory card…
Refer to "Playback Of Video Clips (GR-DVX707 only)" (☞ pg. 29).

To delete unwanted video clips stored in a memory card…
Refer to "Deleting Files" (☞ pg. 33).

To make video clips from recorded video footage



1 Load a cassette. (☞ pg. 16)

2 Load a memory card. (☞ pg. 17)

3 Set the **VIDEO/MEMORY** Switch to "VIDEO".

4 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

5 Press ►/II to start video playback.

6 Press **E-MAIL** to engage the E-Mail Clip Record-Standby mode.
- "E-MAIL CLIP" appears.
- To cancel E-Mail Clip Recording, press **E-MAIL** again or press ■ to stop video playback.

7 At the point you want to start dubbing, press the Recording Start/Stop Button to start E-Mail Clip Recording.

8 Press the Recording Start/Stop Button to stop E-Mail Clip Recording.
- "COMPLETED" is displayed, then the camcorder re-enters the E-Mail Clip Record-Standby mode.

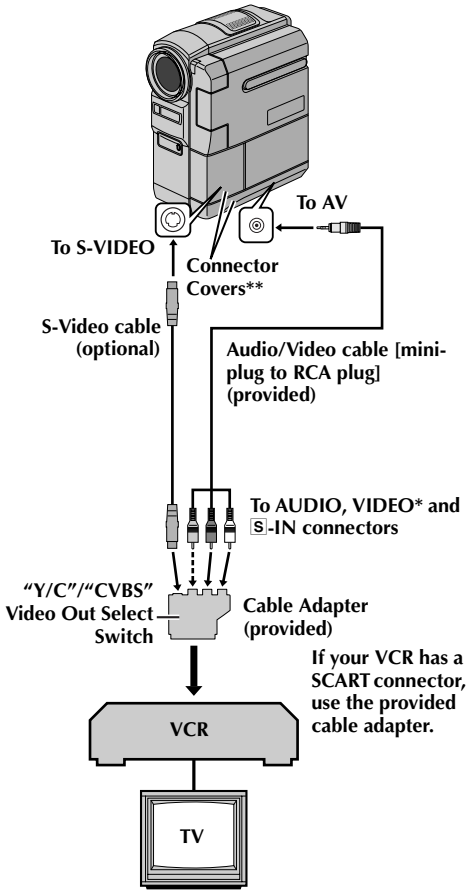
9 Press **E-MAIL** to end E-Mail Clip Recording. The normal screen reappears.

To view video clips stored in a memory card…
Refer to "Playback Of Video Clips (GR-DVX707 only)" (☞ pg. 29).

To delete unwanted video clips stored in a memory card…
Refer to "Deleting Files" (☞ pg. 33).

NOTES:
- *Approximate maximum recording time per video clip is 3 minutes.*
- *Playback operation cannot be performed during E-Mail Clip Recording.*
- *If the end of the tape is reached during E-Mail Clip Recording, that portion will be automatically stored in the memory card.*
- *If the end of the tape is reached in step **6**, the E-Mail Clip Record-Standby mode will be automatically cancelled.*
- *The video clip files stored with this camcorder are compatible with MPEG4. Some MPEG4 files stored with other devices cannot be played back with this camcorder.*
- *Video noise may appear while viewing video clips in the LCD monitor or viewfinder, however, this noise is not present in the actual video clips stored in the memory card.*
- *You can also view video clips on your PC by using Windows® Media Player version 6.4 or later. Refer to the instructions of PC and software.*

Dubbing To A VCR



* Connect when an S-Video cable is not used.
** When connecting the cables, open these covers.

1 Following the illustrations, connect the camcorder and the VCR. Also refer to pages 24 and 25.

2 Set the camcorder's **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)

3 Set the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

4 Turn on the VCR's power.

5 Insert the source cassette in the camcorder.

6 Insert the recording cassette in the VCR.

7 Engage the VCR's AUX and Record-Pause modes.
- Refer to the instruction manual for the VCR.

8 Press ►/II on the camcorder to start playback of the source tape.

9 At the point you want to start dubbing, engage the VCR's Record mode.

10 To pause dubbing, engage the VCR's Record-Pause mode and press ►/II on the camcorder.

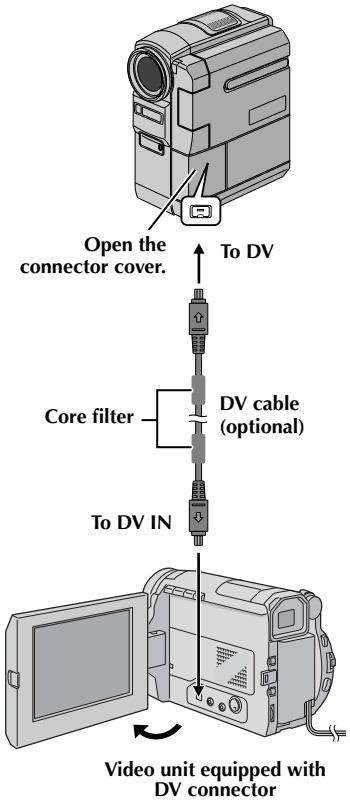
11 Repeat steps **8** – **10** for additional editing. Stop the VCR and camcorder.

NOTES:

- ***It is recommended to use the AC Adapter as the power supply instead of the battery pack. (☞ pg. 11)***
- *As the camcorder starts to play your footage it will appear on your TV. This will confirm the connections and the AUX channel for dubbing purposes.*
- *Before you start dubbing, make sure that the indications do not appear on the connected TV. If they do, they are being recorded onto the new tape.*
  To choose whether or not the following displays appear on the connected TV...
  - *Date/time*
    *Set "DATE/TIME" to "AUTO", "ON" or "OFF". (☞ pg. 38, 49) Or, press **DISPLAY** on the remote control to turn on/off the date indication.*
  - *Time code*
    Set "TIME CODE" to "OFF" or "ON". (☞ pg. 38, 49)
  - *Playback sound mode, tape speed and tape running displays*
    Set "ON SCREEN" to "LCD" or "LCD/TV". (☞ pg. 38, 49)

Dubbing To A Video Unit Equipped With A DV IN Connector (Digital Dubbing)

It is also possible to copy recorded scenes from the camcorder onto another video unit equipped with a DV connector. Since a digital signal is sent, there is little if any image or sound deterioration.



1 Make sure all units are turned off.

2 Connect this camcorder to a video unit equipped with a DV input connector using a DV cable as shown in the illustration.

3 Set this camcorder's **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)

4 Set this camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

5 Turn on the video unit's power.

6 Insert the source cassette in this camcorder.

7 Insert the recording cassette in the video unit.

8 Press ►/II on this camcorder to start playback of the source cassette.

9 At the point you want to start dubbing, engage the video unit's Record mode.

10 To pause dubbing, engage the video unit's Record-Pause mode and press ►/II on this camcorder.

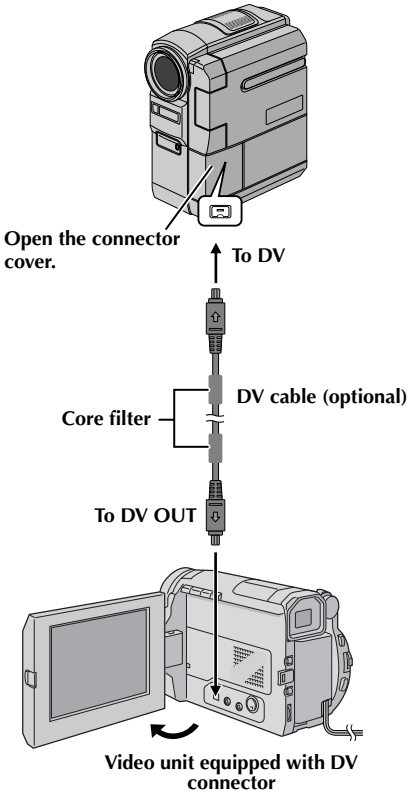
11 Repeat steps **8** – **10** for additional editing. Stop the video unit and camcorder.

NOTES:

- ***It is recommended to use the AC Adapter as the power supply instead of the battery pack. (☞ pg. 11)***
- *If the remote control is used when both the player and recorder are JVC video units, both units will perform the same operation. To prevent this from happening, press the buttons on both units.*
- *If a blank portion or disturbed image is played back on the player during dubbing, the dubbing may stop so that an unusual image is not dubbed.*
- *Even though the DV cable is connected correctly, sometimes the image may not appear in step **9**. If this occurs, turn off the power and make connections again.*
- *If "Playback Zoom" (☞ pg. 68) or "Playback Special Effects" (☞ pg. 69) is attempted or **SNAPSHOT** is pressed during playback, only the original playback image recorded on the tape is output from the DV connector.*
- *When using a DV cable, be sure to use the optional JVC VC-VDV204U DV cable.*

Dubbing From A Video Unit Equipped With A DV OUT Connector (Digital Dubbing) (GR-DVX707/507/407 only)

It is also possible to copy recorded scenes from another video unit equipped with a DV connector onto the camcorder. Since a digital signal is sent, there is little if any image or sound deterioration.



1 Make sure all units are turned off.

2 Connect this camcorder to a video unit equipped with a DV output connector using a DV cable as shown in the illustration.

3 Set this camcorder's **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)

4 Set this camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

5 Set "REC MODE" to "SP" or "LP". (☞ pg. 38, 51)

6 Turn on the video unit's power.

7 Insert the source cassette in the video unit.

8 Insert the recording cassette in this camcorder.

9 Press this camcorder's Recording Start/Stop Button to engage the Record-Pause mode.
- The " DV. IN " indication appears on the screen.

10 Press this camcorder's Recording Start/Stop Button to start recording.
- The ✪ indication rotates.

11 Press this camcorder's Recording Start/Stop Button again to engage the Record-Pause mode.
- The ✪ indication stops rotating.

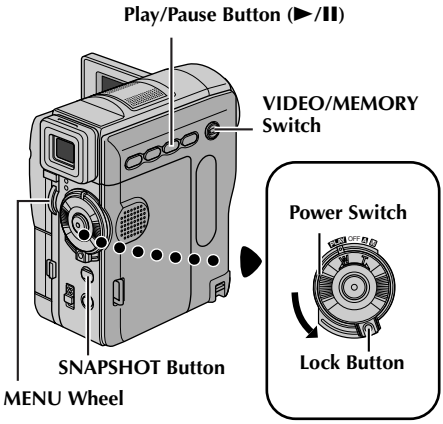
12 Repeat steps **10** – **11** for additional editing. Stop the video unit and camcorder.

NOTES:

- ***It is recommended to use the AC Adapter as the power supply instead of the battery pack.*** ***(☞ pg. 11)***
- *If the remote control is used when both the player and recorder are JVC video units, both units will perform the same operation. To prevent this from happening, press the buttons on both units.*
- *If a blank portion or disturbed image is played back on the player during dubbing, the dubbing may stop so that an unusual image is not dubbed.*
- *Even though the DV cable is connected correctly, sometimes the image may not appear in step **9**. If this occurs, turn off the power and make connections again.*
- *Digital Dubbing is performed in the sound mode recorded on the original tape, regardless of the current "SOUND MODE" setting. (☞ pg. 44)*
- *During Digital Dubbing, no signals are output from the AV or S-Video output connector.*
- *When using a DV cable, be sure to use the optional JVC VC-VDV204U DV cable.*

Dubbing Still Images Recorded On A Tape To A Memory Card (GR-DVX707/507 only)

Still images can be dubbed from a tape to a memory card.



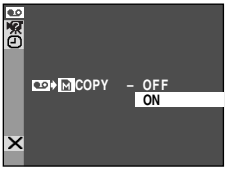
1 Load a cassette. (☞ pg. 16)

2 Load a memory card. (☞ pg. 17)

3 Set the **VIDEO/MEMORY** Switch to "VIDEO".

4 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

5 Set " COPY" to "ON". (☞ pg. 38, 51)



6 Press ►/II to start playback.

7 At the point you want to dub, press ►/II again to engage Still Playback.

8 To dub the image, press **SNAPSHOT**.
- The "" indication blinks during dubbing.
- The selected image is stored in the memory card.



NOTES:
- *If **SNAPSHOT** is pressed in step **8** when a memory card is not loaded, the message "COPYING FAILED" is displayed.*
- *If an image recorded on the tape using "WIDE MODE" (☞ pg. 46) is dubbed to a memory card, the WIDE mode identifying signal is not dubbed with it.*
- *To use Playback Special effects with a video image you wish to dub, perform up to step **8** using the remote control (provided). (☞ pg. 69)*
- *Images are dubbed in 640 x 480 pixels.*

The Full-Function Remote Control Unit can operate this camcorder from a distance as well as the basic operations (Playback, Stop, Pause, Fast-Forward and Rewind) of your VCR. It also makes additional playback functions possible. (☞ pg. 68)

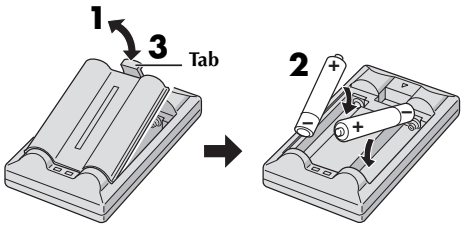
Installing The Batteries

The remote control uses two "AAA (R03)" size batteries. Refer to "General Battery Precautions" (☞ pg. 88).

1 Remove the battery compartment cover while pushing up the tab as illustrated.

2 Insert two "AAA (R03)" size batteries in the correct direction.

3 Re-attach the battery compartment cover.

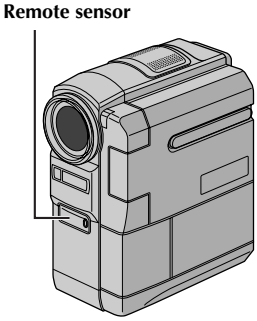


Beam Effective Area (indoor use)

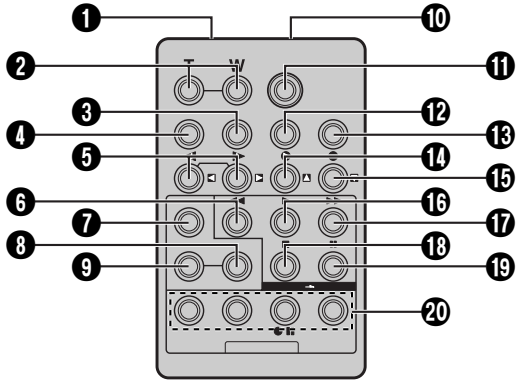
When using the remote control, be sure to point it at the remote sensor. The transmitted beam's approximate effective distance for indoor use is 5 m.

NOTE:

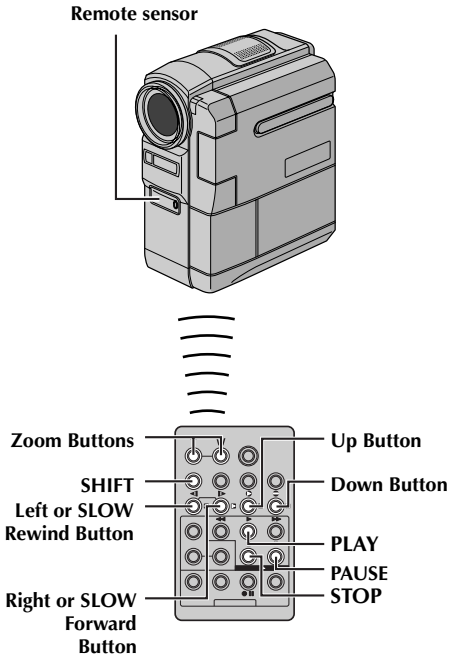
The transmitted beam may not be effective or may cause incorrect operation when the remote sensor is directly exposed to sunlight or powerful lighting.



Buttons And Functions



Buttons	Functions	
	With the camcorder's Power Switch set to "A" or "M".	With the camcorder's Power Switch set to "PLAY".
❶ **Infrared beam transmitting window**	Transmits the beam signal.	
❷ **Zoom (T/W) Buttons**	Zoom in/out (☞ pg. 20)	Zoom in/out (☞ pg. 68)
❸ **DISPLAY Button**		☞ pg. 25, 62, 74
❹ **SHIFT Button**		☞ pg. 68, 73
❺ **SLOW Rewind/Forward Buttons** **Left/Right Buttons**		☞ pg. 68 ☞ pg. 68
❻ **REW Button**		● Rewind/Reverse Shuttle Search on a tape (☞ pg. 22) ● Displays previous file in a memory card (GR-DVX707/507 only) (☞ pg. 28)
❼ **FADE/WIPE Button**		☞ pg. 75
❽ **EFFECT ON/OFF Button**		☞ pg. 69
❾ **EFFECT Button**		☞ pg. 69
❿ **PAUSE IN Connector**		☞ pg. 74
⓫ **START/STOP Button**	Functions the same as the Recording Start/Stop Button on the camcorder.	
⓬ **MBR SET Button**		☞ pg. 73
⓭ **SNAPSHOT Button**	Functions the same as **SNAPSHOT** on the camcorder.	
⓮ **Up Button** **INSERT Button**		☞ pg. 68 ☞ pg. 72
⓯ **Down Button** **A. DUB Button**		☞ pg. 68 ☞ pg. 70
⓰ **PLAY Button**		● Starts Playback of a tape (☞ pg. 22) ● Starts Auto Playback of images in a memory card (GR-DVX707/507 only) (☞ pg. 28)
⓱ **FF Button**		● Forward/Forward Shuttle Search on a tape (☞ pg. 22) ● Displays next file in a memory card (GR-DVX707/507 only) (☞ pg. 28)
⓲ **STOP Button**		● Stops the tape (☞ pg. 22) ● Stops Auto Playback (GR-DVX707/507 only) (☞ pg. 28)
⓳ **PAUSE Button**		Pauses the tape (☞ pg. 68)
⓴ **R.A.EDIT Button**		☞ pg. 73 – 77



Slow-Motion Playback

Allows slow-speed search in either direction during video playback.

During normal video playback, press **SLOW** (◀I or I▶) more than approx. 2 seconds.
- After approx. 1 minute in Slow Rewind or approx. 2 minutes in Slow Forward, normal playback resumes.
- To pause Slow-Motion playback, press **PAUSE** (❚❚).
- To stop Slow-Motion playback, press **PLAY** (▶).

NOTES:
- *You can also engage Slow-Motion Playback from Still Playback by pressing **SLOW** (◀I or I▶) more than approx. 2 seconds.*
- *During Slow-Motion Playback, due to digital image processing, the picture may take on a mosaic effect.*
- *After **SLOW** (◀I or I▶) is pressed and held, the still image may be displayed for a few seconds, followed by a blue screen for a few seconds. This is not a malfunction.*
- *There may be a small margin between the slow-motion playback start point you chose and the actual start point for Slow-Motion Playback.*
- *During Slow-Motion Playback, there will be disturbances in video and the picture may seem unstable, especially with steady images. This is not a malfunction.*

Frame-By-Frame Playback

Allows frame-by-frame search during video playback.

During normal or still playback, press **SLOW** (I▶) repeatedly for forward or **SLOW** (◀I) repeatedly for reverse. Each time **SLOW** (◀I or I▶) is pressed, the frame is played back.

Playback Zoom

Magnifies the recorded image up to 20X at any time during video playback.

1) Press **PLAY** (▶) to start playback.



2) At the point you want to zoom in, press the Zoom Button (**T**).
- To zoom out, press the Zoom Button (**W**).

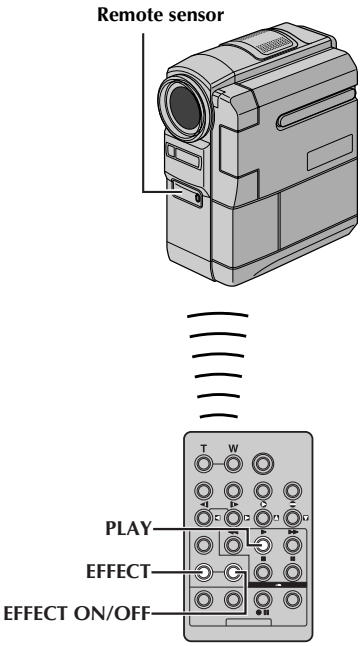


3) You can move the image on the screen around to find a particular portion of the picture. While holding down **SHIFT**, press ◀ (Left), ▶ (Right), ▲ (Up) and ▼ (Down).
- To end zoom, press and hold **W** until magnification returns to normal. Or, press **STOP** (■) and then press **PLAY** (▶).



NOTES:
- *Zoom can also be used during slow-motion and still playback.*
- *Due to digital image processing, the quality of the image may suffer.*

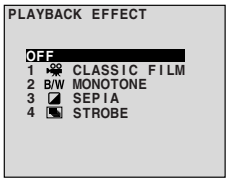
Playback Special Effects



Allows you to add creative effects to the video playback image.
The effects that can be used during playback are CLASSIC FILM, MONOTONE, SEPIA and STROBE. The effects work the same in playback as they did in recording. (☞ pg. 42)

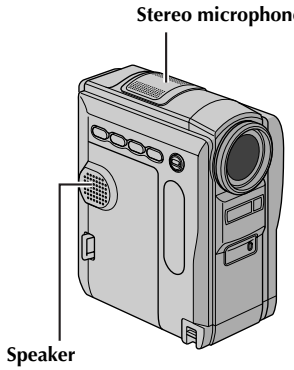
	CLASSIC FILM	Gives recorded scenes a strobe effect.
B/W	**MONOTONE**	Like classic black and white films, your footage is shot in B/W. Used together with the Cinema mode, it enhances the “classic film” effect.
	SEPIA	Recorded scenes have a brownish tint like old photos. Combine this with the Cinema mode for a classic look.
	STROBE	Your recording looks like a series of consecutive snapshots.

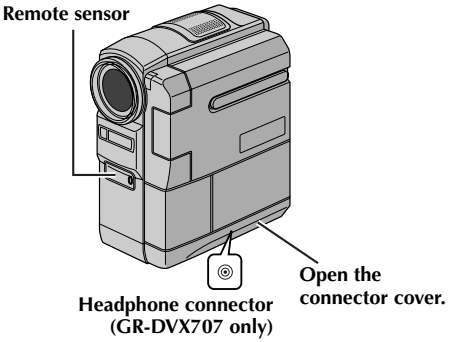
1) To start playback, press **PLAY** (▶).
2) Press **EFFECT**. The PLAYBACK EFFECT Select Menu appears.
3) Press **EFFECT** repeatedly to move the highlight bar to the desired effect.
- The selected function is activated and after 2 seconds the menu disappears.
- To deactivate the selected effect, press **EFFECT ON/OFF**. To reactivate the selected effect press **EFFECT ON/OFF** again.
- To change the selected effect, repeat from step **2** above.

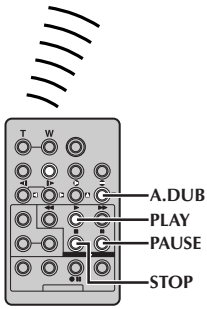


Audio Dubbing

The audio track can be customised only when recorded in the 12-bit and SP modes. (☞ pg. 44)

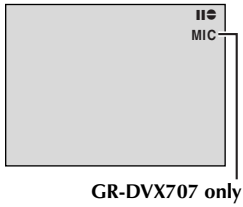






1 Play back the tape to locate the point where editing will start, then press **PAUSE** (❚❚).

2 While holding **A. DUB** (⏺) on the remote control, press **PAUSE** (❚❚). The "❚❚⏺" indicator appears.



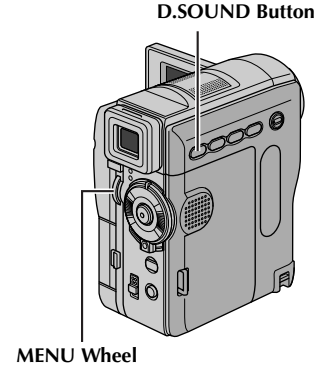
3 Press **PLAY** (▶), then begin "narrating". Speak into the microphone.
- To pause dubbing, press **PAUSE** (❚❚).

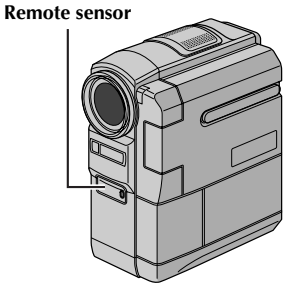
4 To end Audio Dubbing, press **PAUSE** (❚❚), then **STOP** (■).

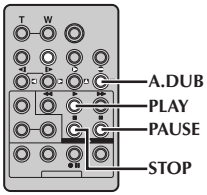
To hear the dubbed sound during playback…
Set "12BIT MODE" to "SOUND 2" or "MIX". (☞ pg. 38, 51)

NOTES:
- *Sound is not heard from the speaker during Audio Dubbing. To hear sound, connect optional headphones to the headphone connector. (GR-DVX707 only)*
- *When editing onto a tape that was recorded at 12-bit, the old and new soundtracks are recorded separately.*
- *If you dub onto a blank space on the tape, the sound may be disrupted. Make sure you only edit recorded areas.*
- *If feedback or howling occurs during TV playback, move the camcorder's microphone away from the TV, or turn down the TV's volume.*
- *If you change from 12-bit to 16-bit in mid-recording and then use the tape for Audio Dubbing, it is not effective from the point where 16-bit recording began.*
- *During Audio Dubbing, when the tape moves to scenes recorded in the LP mode, scenes recorded in 16-bit audio or a blank portion, Audio Dubbing stops.*
- *To perform Audio Dubbing while watching on the television, make connections. (☞ pg. 24, 25)*

Audio Dubbing Using Digital Sound Effects (GR-DVX707 only)







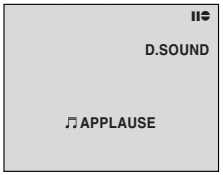
1 Load the provided memory card. (☞ pg. 17) Then, perform step **1** and **2** on page 70.

2 Press the **MENU** Wheel in. The Menu Screen appears.

3 Rotate the **MENU** Wheel to select "SYSTEM", and press it. The SYSTEM Menu appears.

4 Rotate the **MENU** Wheel to select "SOUND IN", and press it. The Sub Menu appears.

5 Rotate the **MENU** Wheel to select "D.SOUND", and press it.



6 Rotate the **MENU** Wheel to select "RETURN", and press it twice. The Menu Screen closes and the sound effect indication appears.

7 Press **INDEX** to access the sound effects Index Screen.

8 Rotate the **MENU** Wheel to select the desired sound effect and press it.

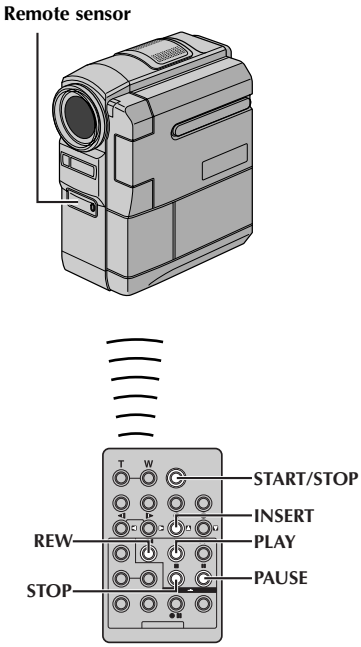
9 Press **PLAY** (▶) to begin Audio Dubbing. The selected sound effect is dubbed onto the tape.
- The "♫" moves while it is being dubbed.
- To stop dubbing the sound effect midway, press **D.SOUND**.

10 Press **STOP** (■) to end Audio Dubbing.

NOTES:
- *After dubbing, set "SOUND IN" back to "MIC".*
- *The dubbed sound effect is recorded on SOUND 2. (☞ pg. 51)*
- *If you press **PAUSE** (❚❚) to pause dubbing in step **9** the selected sound effect indication remains displayed. To resume dubbing, press **PLAY** (▶).*

Insert Editing

You can record a new scene into a previously recorded tape, replacing a section of the original recording with minimal picture distortion at the in and outpoints. The original audio remains unchanged.



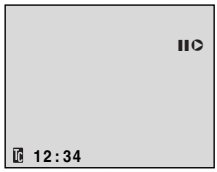
NOTES:

- *Before performing the following steps, make sure that "TIME CODE" is set to "ON". (☞ pg. 38, 49)*
- *Insert Editing is not possible on a tape recorded in the LP mode or on a blank portion of a tape.*
- *To perform Insert Editing while watching in the television, make connections. (☞ pg. 24, 25)*

1 Play back the tape, locate the Edit-Out point and press **PAUSE** (❚❚). Confirm the time code at this point. (☞ pg. 38, 49)

2 Press **REW** (◀◀) until the Edit-In point is located, then press **PAUSE** (❚❚).

3 Press and hold **INSERT** (C) on the remote control, then press **PAUSE** (❚❚). The "❚❚C" indicator and the Time Code (min.:sec.) appear and the camcorder enters Insert-Pause mode.



4 Press **START/STOP** to begin editing.
- Confirm the insert at the time code you checked in step **1**.
- To pause editing, press **START/STOP**. Press it again to resume editing.

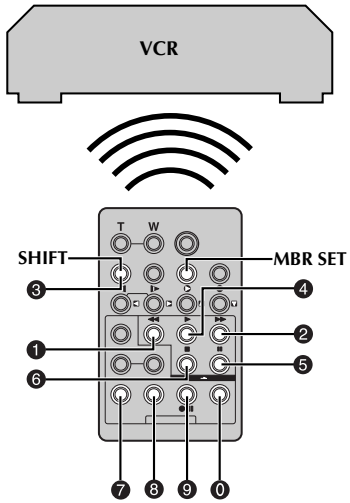
5 To end Insert Editing, press **START/STOP**, then **STOP** (■).

NOTES:

- *Program AE with special effects (☞ pg. 38, 42) can be used to spice up the scenes being edited during Insert Editing.*
- *During Insert Editing, the date and time information changes.*
- *If you perform Insert Editing onto a blank space on the tape, the audio and video may be disrupted. Make sure you only edit recorded areas.*
- *During Insert Editing, when the tape moves to scenes recorded in the LP mode or a blank portion, Insert Edting stops. (☞ pg. 100, 101)*

Random Assemble Editing [R.A.Edit]

Create edited videos easily using your camcorder as the source player. You can select up to 8 "cuts" for automatic editing, in any order you like. R.A.Edit is more easily performed when the MBR (Multi-Brand Remote) is set to operate with your brand of VCR (see "VCR CODE LIST"), but can also be performed by operating the VCR manually.
Before operation, make sure the batteries are installed in the remote control. (☞ pg. 66)



Set Remote/VCR Code

1 Turn off the power to the VCR and point the remote towards the VCR's infrared sensor. Then, referring to the VCR CODE LIST, press and hold **MBR SET**, and enter the brand code.
The code is automatically set once you release **MBR SET**, and the VCR's power comes on.

2 Make sure the VCR's power is on. Then, while holding **SHIFT**, press the button on the remote for the desired function. The functions the remote can control are **PLAY**, **STOP**, **PAUSE**, **FF**, **REW** and **VCR REC STBY** (you do not need to press **SHIFT** for this one).

You are now ready to try Random Assemble Editing.

IMPORTANT

Although the MBR is compatible with JVC VCRs and those of many other makers, it may not work with yours or may offer limited functions.

NOTES:

- *If the VCR's power does not come on in step **1**, try another code from the VCR CODE LIST.*
- *Some brands of VCR do not come on automatically. In this case, turn the power on manually and try step **2**.*
- *If the remote control is not able to control the VCR, use the controls on the VCR.*
- *When the remote control's batteries run out, the VCR brand you have set will be erased. In that case, replace the old battery with a new one to reset the VCR brand.*

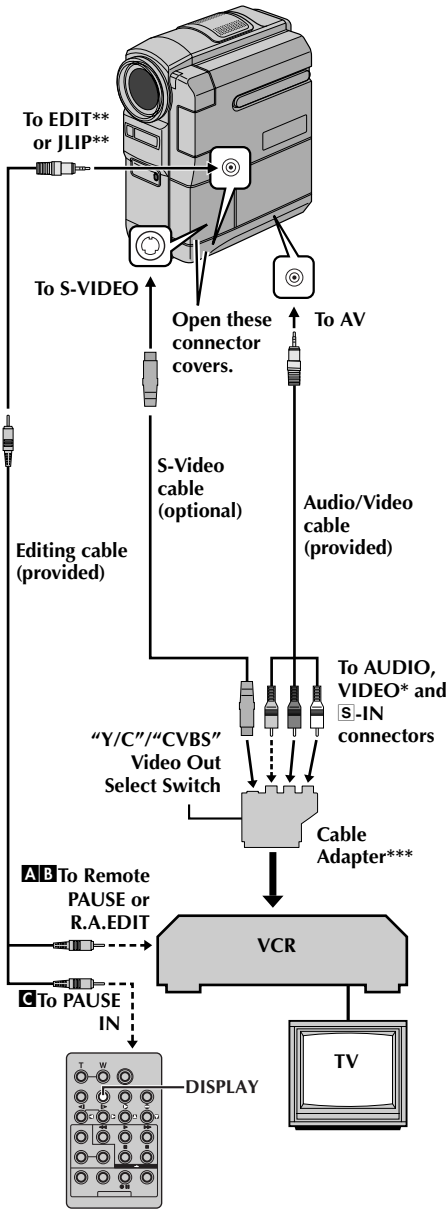
VCR CODE LIST

VCR BRAND NAME	CODE
AKAI	62 64 77
BLAUPUNKT	13
DAEWOO	18
FERGUSON	97 98 32
GRUNDIG	14 34
HITACHI	66 63
JVC A B C	91 96 93
LG/GOLDSTAR	11
MITSUBISHI	67 68
NEC	37 38
PANASONIC	13 17 11 94 18
PHILIPS	19 95 11 94 91 96 12 33 72
SAMSUNG	94
SANYO	36 35
SELECO, REX	91 96
SHARP	15 10
SONY	65 60 39 31
THOMSON, TELEFUNKEN, SABA, NORDMENDE	91 96 97 32
TOSHIBA	69 61

CONTINUED ON NEXT PAGE

Make Connections

Also refer to page 24 and 25.



* Connect when an S-Video cable is not used.
** EDIT: GR-DVX707/507
JLIP: GR-DVX407/400
*** If your VCR has a SCART connector, use the provided cable adapter.

1 **A A JVC VCR equipped with a Remote PAUSE connector…**
…Connect the editing cable to the Remote PAUSE connector.
B A JVC VCR not equipped with a Remote PAUSE connector but equipped with an R.A.EDIT connector…
…Connect the editing cable to the R.A.EDIT connector.
C A VCR other than above…
…Connect the editing cable to the remote control's PAUSE IN connector.

2 Insert a recorded tape into the camcorder.

3 Set the **VIDEO/MEMORY** Switch to "VIDEO". (GR-DVX707/507 only)

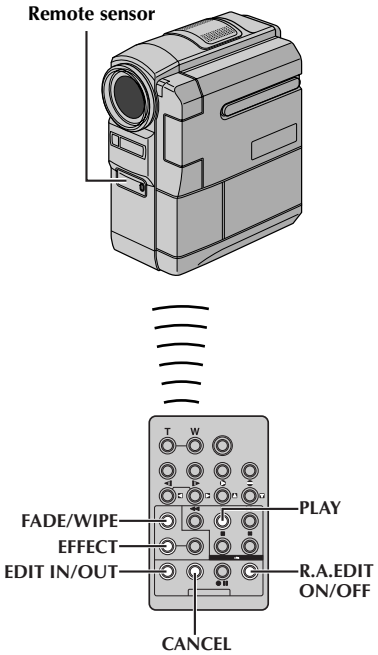
4 Set the Power Switch to "PLAY" while pressing down the Lock Button located on the switch.

5 Turn the VCR power on, insert a recordable tape and engage the AUX mode.
- Refer to the VCR's instructions.

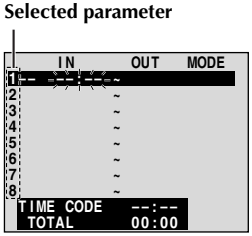
NOTES:

- *Before Random Assemble Editing, make sure the indications do not appear on the TV monitor. If they do, they will be recorded onto the new tape.* ***To choose whether or not the following displays appear on the connected TV…***
  - *Date/Time*
    Set "DISPLAY" to "AUTO", "ON" or "OFF". (☞ pg. 38, 49) Or, press ***DISPLAY*** *on the remote control to turn on/off the date indication.*
  - *Time Code*
    Set "TIME CODE" to "ON" or "OFF". (☞ pg. 38, 49)
  - *Playback Sound Mode, Tape Speed And Tape Running Displays*
    Set "ON SCREEN" to "LCD" or "LCD/TV". (☞ pg. 38, 49)
- *Set the video out select switch of the cable adapter as required:*
  Y/C: When connecting to a TV or VCR which accepts Y/C signals and uses an S-Video cable.
  CVBS: When connecting to a TV or VCR which does not accept Y/C signals and uses an audio/video cable.
- *When editing on a VCR equipped with a DV input connector, an optional DV cable can be connected instead of an S-Video cable and audio/video cable.*

Select Scenes



6 Point the remote control at the camcorder's remote sensor. Press **PLAY** (▶) and then press **R.A.EDIT ON/OFF** on the remote control. The Random Assemble Editing Menu appears.



7 If using a Wipe/Fader at the beginning of the scene, press **FADE/WIPE** on the remote control.
- Cycle through the effects by pressing repeatedly, and stop when the one you want is displayed.

8 At the beginning of the scene, press **EDIT IN/OUT** on the remote control. The Edit-In position appears in the Random Assemble Editing Menu.

9 At the end of the scene, press **EDIT IN/OUT**. The Edit-Out position appears in the Random Assemble Editing Menu.

10 If using a Wipe/Fader at the end of the scene, press **FADE/WIPE**.
- Cycle through the effects by pressing repeatedly, and stop when the one you want is displayed.
- If you select a Wipe/Fader effect for an Edit-Out point, the effect is automatically applied to the following Edit-In point.
- When you use Wipe/Fader effects, that time is included in the total time.

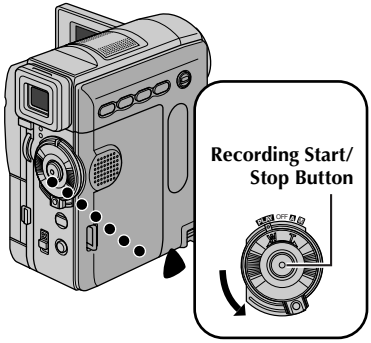
11 If using Playback Special Effects, press **EFFECT**. (☞ pg. 69)

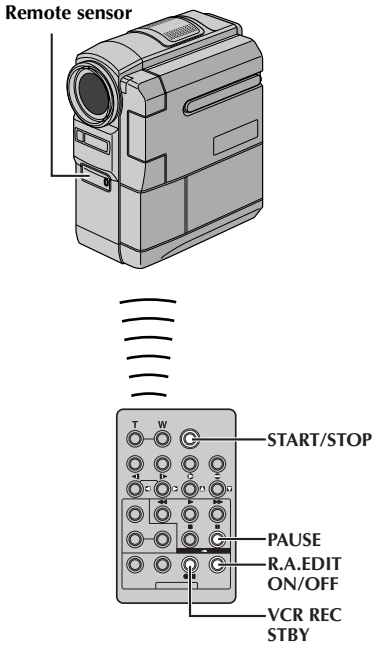
12 Repeat steps **8** through **11** to register additional scenes.
- To change previously registered points, press **CANCEL** on the remote control. The registered points disappear, one at a time, from the most recently registered point.
- If you are not using Wipe/Fader or Program AE with special effects, repeat steps **8** and **9** only.

NOTES:
- *When choosing a scene, set Edit-In and Edit-Out points so that there is a relatively large difference between them.*
- *If the search time for an in-point exceeds 5 minutes, the recording deck's Record-Standby mode will be cancelled and editing will not take place.*
- *If there are blank portions before or after the Edit-In and Edit-Out points, a blue screen may be included in the edited version.*
- *Since time codes register time only as accurately as seconds, the time code total time may not match the total program time exactly.*
- *Turning off the camcorder's power erases all registered Edit-In and Edit-Out points.*
- *If you select Sepia or Monotone mode from Program AE with special effects, you cannot use the Black & White Fader. In this case the Black & White indicator begins blinking. Once the next Edit-In point is registered, the effect is turned off. To combine these effects, use Sepia or Monotone during recording, then use the Black & White Fader during Random Assemble Editing.*
- *It is not possible to use Wipe/Fader effects and Program AE with special effects during Random Assemble Editing using a DV cable.*

CONTINUED ON NEXT PAGE

Automatic Editing To VCR

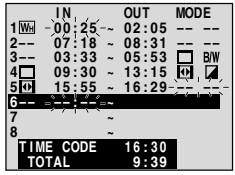




13 Rewind the tape in the camcorder to the beginning of the scene you want to edit and press **PAUSE** (❚❚).

14 Point the remote control towards the VCR's remote sensor and press **VCR REC STBY** (●❚❚), or manually engage the VCR's Record-Pause mode.

15 Press the Recording Start/Stop Button on the camcorder. Editing proceeds as programmed, right through to the end of the last registered scene.



- When dubbing is complete, the camcorder enters the Pause mode, and the VCR enters its Record-Pause mode.
- If you do not register an Edit-Out point, the tape will be dubbed all the way to the end automatically.
- If you operate the camcorder during automatic editing, the VCR will enter its Record-Pause mode and automatic editing will stop.

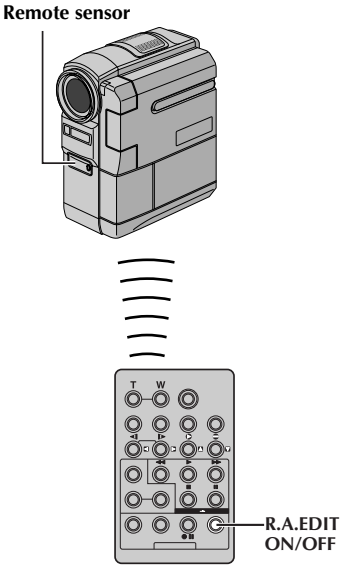
16 Engage the Stop modes for the camcorder and the VCR.
To make the R.A.Edit counter display disappear, press **R.A.EDIT ON/OFF** on the remote control.

NOTES:

- *Pressing **R.A.EDIT ON/OFF** on the remote control clears all settings registered during Random Assemble Editing.*
- *When the editing cable is connected to the remote control's PAUSE IN connector during dubbing, make sure the remote control is pointed at the VCR's sensor, and the path between the two is unobstructed.*
- *Random Assemble Editing may not function properly when using a tape including several duplicated time codes. (☞ pg. 21)*

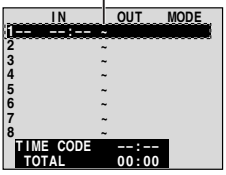
For More Accurate Editing

Some VCRs make the transition from Record-Pause to Record mode faster than others. Even if you begin editing for the camcorder and the VCR at exactly the same time, you may lose scenes you wanted, or find that you have recorded scenes you did not want. For a cleanly edited tape, confirm and adjust the timing of the camcorder against your VCR.



Diagnosing VCR/Camcorder Timing

1 Play back the tape in the camcorder, then point the remote control at the camcorder's remote sensor and press **R.A.EDIT ON/OFF**.
Random Assemble Editing Menu appears.



Random Assemble Editing Menu

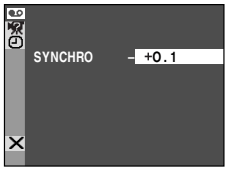
2 Perform Random Assemble Editing on Program 1 only. In order to check VCR and camcorder timing, select the beginning of a scene transition as your Edit-In point.

3 Play back the dubbed scene.
- If any images from the scene prior to the transition you chose for your Edit-In point were recorded, that means your VCR moves too quickly from Record-Pause to Record mode.
- If the scene you tried to dub starts in progress, the VCR is slow to start recording.

Adjustment Of VCR/Camcorder Timing

4 Point the remote control at the camcorder's remote sensor and press **R.A.EDIT ON/OFF** to make the Random Assemble Editing menu disappear, then press the **MENU** Wheel in. The Menu Screen appears.

5 Rotate the **MENU** Wheel to select "VIDEO", and press it. The VIDEO Menu appears. Then, rotate the **MENU** Wheel to select "SYNCHRO" and press it. The value for "SYNCHRO" is highlighted.

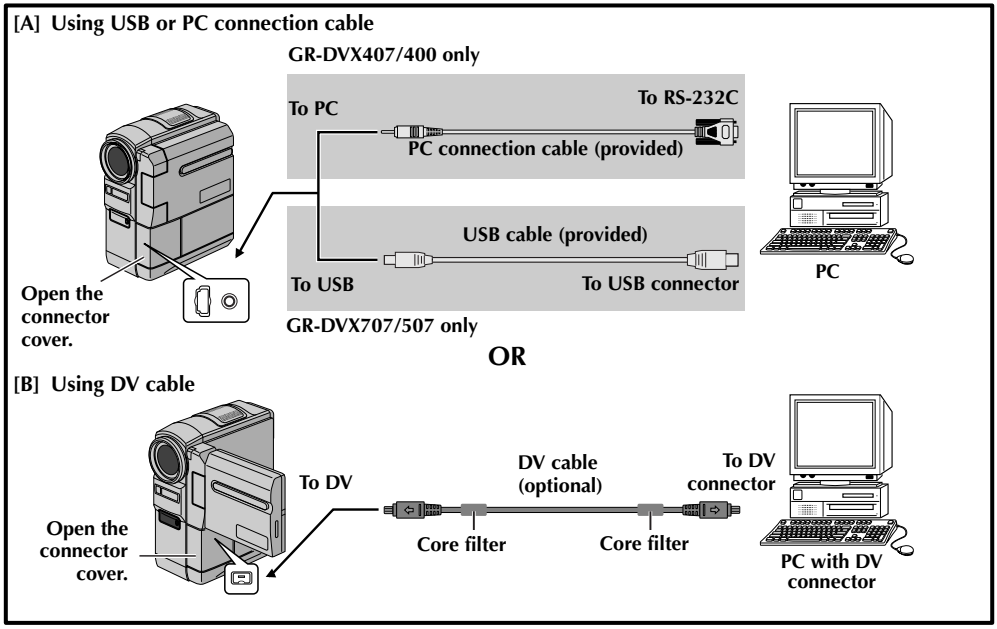


6 Based on the diagnostics performed, you can now advance the VCR's record timing by rotating the **MENU** Wheel towards "+". You can also delay the VCR's record timing by rotating the **MENU** Wheel towards "–".
The adjustment range is from –1.3 to +1.3 seconds, in 0.1-second increments.
Press the **MENU** Wheel in to finish the setting.

7 Rotate the **MENU** Wheel to select "RETURN", and press it twice.
Now perform Random Assemble Editing beginning with step **6** on page 75.

NOTES:
- *Before performing actual Random Assemble Editing, do a few Random Assemble Editing trial runs to check whether the value you have input is appropriate or not, and make adjustments accordingly.*
- *Depending on the recorder, there may be situations where the timing difference cannot be fully corrected.*

Connection To A Personal Computer



[A] Using USB or PC connection cable

This camcorder can transfer still images to a PC by using the provided software.

[B] Using DV cable

It is also possible to transfer still images to a PC with a DV connector by using software equipped with the PC or commercially available software.

1 Connect the camcorder to your PC using the appropriate cable as shown in the illustration.

2 If you are using the USB connection, set the **VIDEO/MEMORY** switch to "MEMORY". (GR-DVX707/507 only)

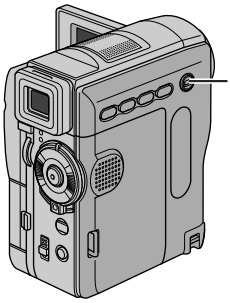
3 Turn the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch and turn on the PC.
- Refer to the instruction manual of the software on how to transfer a still image to the PC.

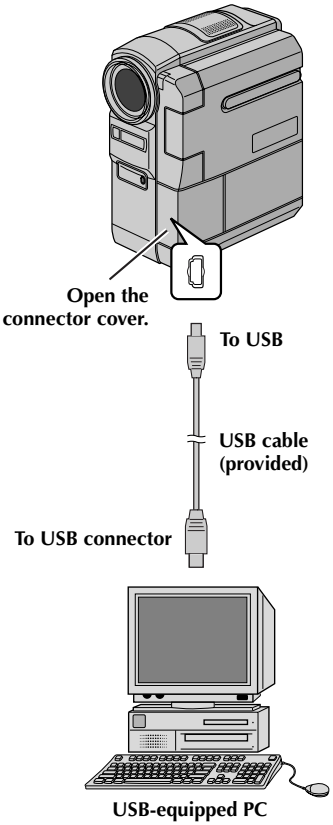
NOTES:
- *Refer to "SOFTWARE INSTALLATION AND USB OR PC CONNECTION GUIDE" for the installation of the bundled software and drivers.*
- ***It is recommended to use the AC Adapter as the power supply instead of the battery pack. (☞ pg. 11)***
- ***Never connect the USB or PC connection cable and the DV cable simultaneously to the camcorder. Connect only the cable you wish to use to the camcorder.***
- ***When using a DV cable, be sure to use the optional JVC VC-VDV206U or VC-VDV204U DV cable depending on the type of DV connector (4 or 6 pins) on the PC, or use the DV cable provided with the capture board.***
- *If the PC connected to the camcorder via the USB cable is not powered, the camcorder does not enter the USB mode.*
- *The date/time information cannot be captured into the PC.*
- *Refer to the instruction manuals of the PC and Software.*
- *The still images can also be transferred to a PC with a DV connector-equipped capture board.*
- *The system may not work properly depending on the PC or capture board you are using.*

For GR-DVX707/507 owners:
"USB MODE" and/or "ACCESSING FILES" appears on the LCD monitor while the PC is accessing data in the camcorder or the camcorder is transferring a file to the PC.
NEVER disconnect the USB cable while "ACCESSING FILES" is displayed on the LCD monitor since this can result in product damage.

Using The Camcorder As A WebCam (GR-DVX707 only)

This camcorder can be used as a WebCam via USB connection.





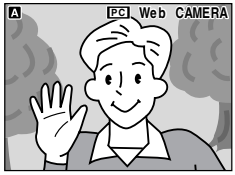
1 Make sure all necessary software (provided) are installed in your PC and all units are turned off.

2 Connect the camcorder to your PC using the USB cable.

3 Set the **VIDEO/MEMORY** Switch to "MEMORY".

4 Set the Power Switch to "A" or "M" while pressing down the Lock Button located on the switch.

5 Turn on the PC.
- "Web CAMERA" appears on the screen.
- If the PC is not powered on, the camcorder does not enter the Web Camera mode.



6 When finished, turn off the PC first, then the camcorder.
Disconnect the USB cable from the camcorder and PC.

NOTES:
- ***It is recommended to use the AC Adapter as the power supply instead of the battery pack.*** ***(☞ pg. 11)***
- *Use the provided software PIXELA ImageMixer to capture video in real time.*
- *You can also use the camcorder for web conference by using Microsoft Windows® NetMeeting® and signing up for MSN Hotmail.*
- *In the Web Camera mode, the following buttons cannot be operated:* ***E-MAIL***, ***SNAPSHOT***, *the Recording Start/Stop Button.*

Refer to the instruction manuals of the PC and provided Software.

REFERENCES

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TERMS 102

ITEMS	NOTES
⇨ Power (☞ pg. 10)	● Perform charging where the temperature is between 10°C and 35°C. 20°C to 25°C is the ideal temperature range for charging. If the environment is too cold, charging may be incomplete. ● Charging times noted above are for a fully discharged battery pack. ● Charging time varies according to the ambient temperature and the status of the battery pack. ● To avoid interference with reception, do not use the AC Adapter near a radio. ● Since the AC Adapter processes electricity internally, it becomes warm during use. Be sure to use it only in well-ventilated areas. ● The following operation stops charging: • Set the Power Switch to "PLAY", "A" or "M". • Disconnect the AC Adapter from the camcorder. • Unplug the AC Adapter from the AC outlet. • Detach the battery from the camcorder.
⇨ VIDEO RECORDING (☞ pg. 19, 20)	● When you use the LCD monitor outdoors in direct sunlight, the LCD monitor may be difficult to see. If this happens, use the viewfinder instead. ● The cassette holder cannot be opened unless a power supply is attached. ● There may be a delay after you open the cassette holder cover until the cassette holder opens. Do not use force. ● Once the cassette holder is closed, it recedes automatically. Wait until it recedes completely before closing the cassette holder cover. ● When the Recording Start/Stop button is pressed, it may take a few seconds before actual recording starts. The "⟲" indicator starts rotating when the camcorder actually starts recording. ● The time required to calculate and display the remaining tape length, and the accuracy of the calculation, may vary according to the type of tape used. ● "TAPE END" appears when the tape reaches its end, and the power goes off automatically if left in this condition for 5 minutes. "TAPE END" also appears when a cassette at its end is loaded. ● During recording, sound is not heard from the speaker. To hear the sound, connect optional headphones to the headphone connector. (GR-DVX707 only) The sound volume is at the level it was adjusted to during playback. (☞ pg. 22)

If, after following the steps in the chart below, the problem still exists, please consult your nearest JVC dealer.

The camcorder is a microcomputer-controlled device. External noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such cases, first disconnect its power supply unit (battery pack, AC Adapter, etc.) and wait a few minutes; and then re-connect it and proceed as usual from the beginning.

Power

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. No power is supplied.	*1.* • The power is not connected properly. • The battery is dead. • The LCD monitor is not open fully or the viewfinder is not pulled out when recording.	*1.* • Connect the AC Adapter securely. (☞ pg. 11) • Replace the dead battery with a fully charged one. (☞ pg. 10, 11) • Open the LCD monitor fully or pull out the viewfinder.

Video and D.S.C. (GR-DVX707/507 only) Recording

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
2. Recording cannot be performed.	*2.* • The Power Switch is set to "PLAY" or "OFF". — For Video Recording — • The tape's erase protection tab is set to "SAVE". • The **VIDEO/MEMORY** Switch is set to "MEMORY". • "TAPE END" appears. • The cassette holder cover is open. — For D.S.C. Recording — • The **VIDEO/MEMORY** Switch is set to "VIDEO".	*2.* • Set the Power Switch to "A" or "M". (☞ pg. 14) — For Video Recording — • Set the tape's erase protection tab to "REC". (☞ pg. 16) • Set the **VIDEO/MEMORY** Switch to "VIDEO". • Replace with new cassette. (☞ pg. 16) • Close the cassette holder cover. — For D.S.C. Recording — • Set the **VIDEO/MEMORY** Switch to "MEMORY".
3. When shooting a subject illuminated by bright light, vertical lines appear.	*3.* • This is a result of exceedingly high contrast, and is not a malfunction.	*3.* —
4. When the screen is under direct sunlight during shooting, the screen becomes red or black for an instant.	*4.* • This is not a malfunction.	*4.* —
5. During recording, the date/time does not appear.	*5.* • "DATE/TIME" is set to "OFF".	*5.* • Set "DATE/TIME" to "ON". (☞ pg. 38, 49)

6. During recording, sound cannot be heard.	***6.*** • The optional headphones are not connected to the headphones connector. (GR-DVX707 only) • The sound volume of the headphones connector (GR-DVX707 only) was not adjusted appropriately. The sound volume at this point is the same as the level it was adjusted to during playback.	***6.*** • Connect the optional headphones to the headphone connector (GR-DVX707 only). (☞ pg. 95) • Adjust the sound volume during playback. (☞ pg. 22)
7. The LCD monitor or viewfinder indications blink.	***7.*** • Certain Wipe/Fader effects, certain modes of Program AE with special effects, "DIS" and other functions that cannot be used together are selected at the same time.	***7.*** • Re-read the sections covering Wipe/Fader effects, Program AE with special effects and "DIS". (☞ pg. 38, 40 – 43, 46)
8. Digital Zoom does not work.	***8.*** • 10X optical zoom is selected. • The **VIDEO/MEMORY** Switch is set to "MEMORY".	***8.*** • Set "ZOOM" to "40X" or "200X". (☞ pg. 44) • Set the **VIDEO/MEMORY** Switch to "VIDEO".

Video and D.S.C. (GR-DVX707/507 only) Playback

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
9. Play, Rewind and Fast-Forward functions do not work.	***9.*** • The Power Switch is set to "A" or "M". • **VIDEO/MEMORY** Switch is set to "MEMORY".	***9.*** • Set the Power Switch to "PLAY". (☞ pg. 22) • Set the **VIDEO/MEMORY** Switch to "VIDEO".
10. The LCD monitor image is distorted.	***10.*** • During playback of the unrecorded portion, High-speed Search and still playback, LCD monitor indications appear distorted. This is not a defect.	***10.*** —
11. The tape is moving, but there is no picture.	***11.*** • Your TV has AV input terminals, but is not set to its VIDEO mode. • The cassette holder cover is open.	***11.*** • Set the TV to the mode or channel appropriate for video playback. (☞ pg. 24, 25) • Close the cassette holder cover. (☞ pg. 16)
12. Blocks of noise appear during playback, or there is no playback picture and the screen becomes blue.	***12.*** —	***12.*** • Clean the video heads with an optional cleaning cassette. (☞ pg. 91)
13. A memory card cannot be played back.	***13.*** • The Power Switch is set to "A" or "M". • The **VIDEO/MEMORY** Switch is set to "VIDEO".	***13.*** • Set the Power Switch to "PLAY". (☞ pg. 28) • Set the **VIDEO/MEMORY** Switch to "MEMORY".

CONTINUED ON NEXT PAGE

Advanced features

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
14. The focus does not adjust automatically.	***14.*** • Focus is set to the Manual mode. • The recording was done in a dark place, or the contrast was low. • The lens is dirty or covered with condensation.	***14.*** • Set Focus to the Auto mode. (☞ pg. 55) • Clean the lens and check the focus again. (☞ pg. 91)
15. Snapshot mode cannot be used.	***15.*** • The Squeeze mode (SQUEEZE) is selected.	***15.*** • Disengage the Squeeze (SQUEEZE) mode. (☞ pg. 46)
16. The colour of Snapshot looks strange.	***16.*** • The light source or the subject does not include white. Or there are various different light sources behind the subject. • The Sepia (SEPIA) or Monotone (MONOTONE) mode is activated.	***16.*** • Find a white subject and compose your shot so that it also appears in the frame. (☞ pg. 27, 53) • Disengage the Sepia (SEPIA) and Monotone (MONOTONE). (☞ pg. 42)
17. The image taken using Snapshot is too dark.	***17.*** • Shooting was performed under backlit conditions.	***17.*** • Press **BACKLIGHT**. (☞ pg. 57)
18. The image taken using Snapshot is too bright.	***18.*** • The subject is too bright.	***18.*** • Set "PROGRAM AE" to "SPOTLIGHT". (☞ pg. 42)
19. White Balance cannot be activated.	***19.*** • The Sepia (SEPIA) or Monotone (MONOTONE) mode is activated.	***19.*** • Disengage the Sepia (SEPIA) or Monotone (MONOTONE) mode before setting White Balance. (☞ pg. 42, 43)
20. Wipe/Fader effects do not work.	***20.*** • The Power Switch is set to "A".	***20.*** • Set the Power Switch to "M". (☞ pg. 14)
21. The Black & White Fader does not work.	***21.*** • The Sepia (SEPIA) or Monotone (MONOTONE) mode is activated.	***21.*** • Disengage the Sepia (SEPIA) and Monotone (MONOTONE). (☞ pg. 42)
22. Program AE with special effects does not work.	***22.*** • The Power Switch is set to "A".	***22.*** • Set the Power Switch to "M". (☞ pg. 14)
23. Even when Slow Shutter is not selected, the image looks like it is activated.	***23.*** • When shooting in the dark, the unit becomes highly sensitive to light and the image takes on an effect similar to Slow Shutter.	***23.*** • If you want the lighting to look more natural, set "GAIN UP" to "ACG" or "OFF". (☞ pg. 38, 45)

24. Although Snapshot is attempted, flash does not take place.	***24.*** • The subject is too bright with the flash set to "AUTO" or "AUTO ◉". • If ϟ blinks, the flash is being charged. • The camcorder is in the Record mode. • In the Menu Screen, "GAIN UP" is set to "OFF" or "P PROGRAM AE" is set to "TWILIGHT".	***24.*** • Set "FLASH" to "ON" in MANUAL Menu. (☞ pg. 38, 47) • It can take up to 10 seconds to charge the flash. • Set the camcorder in the Record-Standby mode. (☞ pg. 53, 54) • Set "GAIN UP" to "AUTO ϟA" or "ACG" (☞ pg. 38, 45) or disengage the "TWILIGHT" mode. (☞ pg. 38, 42)
25. Although a Snapshot is taken with the flash, Red-Eye Reduction does not take place.	***25.*** • The subject does not look straight toward the flash. • The subject does not look at the first flash, which is an important part of Red-Eye Reduction. • The camcorder is too far from the subject. • "FLASH" is not set to "AUTO ◉" in MANUAL Menu.	***25.*** • The subject should look straight toward the flash, especially the first flash. If the subject does not see the first flash, it will be difficult for Red-Eye Reduction to take place. (☞ pg. 54) • The flash is effective for subjects at a distance of approx. 0.7 m to 2 m from the camcorder. (☞ pg. 54) • Set "FLASH" to "AUTO ◉" to display the Red-Eye Reduction indicator. (☞ pg. 38, 54)

Other problems

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
26. The CHARGE indicator on the camcorder does not light.	***26.*** • The temperature of the battery is extremely high/low. • Charging is difficult in places subject to extremely high/ low temperatures.	***26.*** • To protect the battery, it is recommended to charge it in places with a temperature of 10°C to 35°C. (☞ pg. 88)
27. "SET DATE/TIME!" appears.	***27.*** • The built-in clock's rechargeable lithium battery is discharged. • The previously set date/time is erased.	***27.*** • Connect the camcorder to an AC outlet using the AC Adapter for over 24 hours to charge the clock's lithium battery. (☞ pg. 15)
28. There is no picture.	***28.*** • The camcorder is not getting power, or some other malfunction exists.	***28.*** • Turn the camcorder's power off and on again. (☞ pg. 14)
29. Some functions are not available using the **MENU** Wheel.	***29.*** • The Power Switch is set to "A".	***29.*** • Set the Power Switch to "M". (☞ pg. 14)
30. Files stored in the memory card cannot be deleted.	***30.*** • Files stored in the memory card are protected.	***30.*** • Remove protection from the files stored in the memory card and delete them. (☞ pg. 31 – 33)

CONTINUED ON NEXT PAGE

31. When the image is printed from the printer, a black bar appears at the bottom of the screen.	***31.*** • This is not a malfunction.	***31.*** • By recording with "DIS" activated (☞ pg. 46) this can be avoided.
32. When the camcorder is connected via the DV connector, the camcorder does not operate.	***32.*** • The DV cable was plugged/unplugged with power turned on.	***32.*** • Turn the camcorder's power off and on again, then operate it.
33. The rear of the LCD monitor is hot.	***33.*** • The light used to illuminate the LCD monitor causes it to become hot.	***33.*** • Close the LCD monitor to turn it off or set the Power Switch to "OFF", and let the unit cool down.
34. Images on the LCD monitor appear dark or whitish.	***34.*** • In places subject to low temperature, images become dark due to the characteristics of the LCD monitor. When this happens, the displayed colours differ from those that are actually recorded. This is not a defect of the camcorder. • When the LCD monitor's fluorescent light reaches the end of its service life, images on the LCD monitor become dark. Consult your nearest JVC dealer.	***34.*** • Adjust the brightness and angle of the LCD monitor. (☞ pg. 13)
35. Coloured bright spots appear all over the LCD monitor or the viewfinder.	***35.*** • The LCD monitor and the viewfinder are made with high-precision technology. However, black spots or bright spots of light (red, green or blue) may appear constantly on the LCD monitor or the viewfinder. These spots are not recorded on the tape. This is not due to any defect of the unit. (Effective dots: more than 99.99 %)	***35.*** —
36. The indicators and the image colour on the LCD monitor are not clear.	***36.*** • This may occur when the surface or the edge of the LCD monitor is pressed.	***36.*** —
37. The cassette will not load properly.	***37.*** • The cassette is in the wrong position. • The battery's charge is low.	***37.*** • Set it in the right position. (☞ pg. 16) • Install a fully charged battery. (☞ pg. 10, 11)
38. The memory card will not load properly.	***38.*** • The memory card is in the wrong position.	***38.*** • Set it in the right position. (☞ pg. 17)
39. The memory card cannot be removed from the camcorder.	***39.*** —	***39.*** • Push in the memory card a few more times. (☞ pg. 17)

40. Picture does not appear on the LCD monitor.	***40.*** • The viewfinder is pulled out. • The LCD monitor's brightness setting is too dark.	***40.*** • Push the viewfinder back in. • Adjust the brightness of the LCD monitor. (☞ pg. 13) • If the monitor is tilted upward 180 degrees, open the monitor fully. (☞ pg. 13)
41. Images on the LCD monitor are jittery.	***41.*** • The speaker volume is too great.	***41.*** • Turn the speaker volume down. (☞ pg. 22)
42. The LCD monitor, the viewfinder and the lens have become dirty (ex. fingerprints).	***42.*** —	***42.*** • Wipe them gently with soft cloth. Wiping strongly can cause damage. (☞ pg. 91)
43. Time code does not appear.	***43.*** • "TIME CODE" is set to "OFF".	***43.*** • Set "TIME CODE" to "ON". (☞ pg. 38, 49, 52)
44. An unusual mark appears.	***44.*** —	***44.*** • Check the section of the manual that explains LCD monitor/viewfinder indications. (☞ pg. 96 – 99)
45. An error indication (E01, E02 or E06) appears.	***45.*** • A malfunction of some kind has occurred. In this case the camcorder's functions become unusable.	***45.*** • Remove the power supply (battery pack, etc.) and wait a few minutes for the indication to clear. When it does, you can resume using the camcorder. If the indication remains even though you repeat the above two or three times, please consult your nearest JVC dealer. Do not eject the cassette. This will cause damage to the tape.
46. An error indication (E03 or E04) appears.	***46.*** • A malfunction of some kind has occurred. In this case the camcorder's functions become unusable.	***46.*** • Eject the cassette once and re-insert it, then check if the indication clears. When it does, you can resume using the camcorder. If the indication remains even though you repeat the above two or three times, please consult your nearest JVC dealer.

General Battery Precautions

If the remote control is not functioning even if it is being operated correctly, the batteries are exhausted. Replace them with fresh ones.

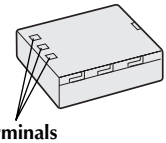
Use only the following batteries: AAA (R03) size x 2

Please make note of the following rules for battery use. When misused, the batteries can leak or explode.

1. When replacing batteries, refer to page 66.
2. **Do not** use any different size of batteries from those specified.
3. Be sure to install batteries in the correct direction.
4. **Do not** use rechargeable batteries.
5. **Do not** expose the batteries to excessive heat as they can leak or explode.
6. **Do not** dispose of the batteries in a fire.
7. Remove the batteries from the unit if it is to be stored for an extended period to avoid battery leakage which can cause malfunctions.
8. **Do not** recharge the provided batteries.

Battery Packs

The supplied battery pack is a lithium-ion battery. Before using the supplied battery pack or an optional battery pack, be sure to read the following cautions:



Terminals

1. **To avoid hazards…**
   - **...do not** burn.
   - **...do not** short-circuit the terminals. When transporting, make sure the provided battery cap is attached to the battery. If the battery cap is misplaced, carry the battery in a plastic bag.
   - **...do not** modify or disassemble.
   - **...do not** expose the battery to temperatures exceeding 60°C, as this may cause the battery to overheat, explode or catch fire.
   - ...use only specified chargers.
2. **To prevent damage and prolong service life…**
   - ...do not subject to unnecessary shock.
   - ...charge in an environment where temperatures are within the tolerances shown in the chart below. This is a chemical reaction type battery — cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging.
   - ...store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
   - ...fully charge and then fully discharge the battery every 6 months when storing the battery pack over a long period time.
   - ...remove from charger or powered unit when not in use, as some machines use current even when switched off.

NOTES:

- *It is normal for the battery pack to be warm after charging, or after use.*
  Temperature Range Specifications
  Charging.....10°C to 35°C
  Operation.....0°C to 40°C
  Storage .....–10°C to 30°C
- *Recharging time is based on room temperature of 20°C.*
- *The lower the temperature, the longer recharging takes.*

Cassettes

To properly use and store your cassettes, be sure to read the following cautions:

1. **During use…**
   - ...make sure the cassette bears the Mini DV mark.
   - ...be aware that recording onto prerecorded tapes automatically erases the previously recorded video and audio signals.
   - ...make sure the cassette is positioned properly when inserting.
   - ...do not load and unload the cassette repeatedly without allowing the tape to run at all. This slackens the tape and can result in damage.
   - ...do not open the front tape cover. This exposes the tape to fingerprints and dust.
2. **Store cassettes…**
   - ...away from heaters or other heat sources.
   - ...out of direct sunlight.
   - ...where they won't be subject to unnecessary shock or vibration.
   - ...where they won't be exposed to strong magnetic fields (such as those generated by motors, transformers or magnets).
   - ...vertically, in their original cases.

Memory Cards

To properly use and store your memory cards, be sure to read the following cautions:

1. **During use…**
   ...make sure the memory card bears the SD or MultiMediaCard mark.
   ...make sure the memory card is positioned properly when inserting.
2. **While the memory card is being accessed (during recording, playback, deletion, initialisation, etc.)…**
   ...never unload the memory card and never turn off the camcorder.
3. **Store memory cards…**
   ...away from heaters or other heat sources.
   ...out of direct sunlight.
   ...where they won't be subject to unnecessary shock or vibration.
   ...where they won't be exposed to strong magnetic fields (such as those generated by motors, transformers or magnets).

LCD Monitor

1. **To prevent damage to the LCD monitor, DO NOT…**
   ...push it strongly or apply any shocks.
   ...place the camcorder with the LCD monitor on the bottom.
2. **To prolong service life . . .**
   ...avoid rubbing it with coarse cloth.
3. **Be aware of the following phenomena for LCD monitor use.**
   These are not malfunctions:
   • While using the camcorder, the surface around the LCD monitor and/or the back of the LCD monitor may heat up.
   • If you leave power on for a long time, the surface around the LCD monitor becomes hot.

Main Unit

1. **For safety, DO NOT…**
   ...open the camcorder's chassis.
   ...disassemble or modify the unit.
   ...short-circuit the terminals of the battery pack. Keep it away from metallic objects when not in use.
   ...allow inflammables, water or metallic objects to enter the unit.
   ...remove the battery pack or disconnect the power supply while the power is on.
   ...leave the battery pack attached when the camcorder is not in use.
2. **Avoid using the unit…**
   ...in places subject to excessive humidity or dust.
   ...in places subject to soot or steam such as near a cooking stove.
   ...in places subject to excessive shock or vibration.
   ...near a television set.
   ...near appliances generating strong magnetic or electric fields (speakers, broadcasting antennas, etc.).
   ...in places subject to extremely high (over 40°C) or extremely low (under 0°C) temperatures.
3. **DO NOT leave the unit…**
   ...in places of over 50°C.
   ...in places where humidity is extremely low (below 35%) or extremely high (above 80%).
   ...in direct sunlight.
   ...in a closed car in summer.
   ...near a heater.
4. **To protect the unit, DO NOT…**
   ...allow it to become wet.
   ...drop the unit or strike it against hard objects.
   ...subject it to shock or excessive vibration during transportation.
   ...keep the lens directed at extremely bright objects for long periods.
   ...expose the lens to direct sunlight.
   ...carry it by holding the LCD monitor or the viewfinder.
   ...swing it excessively when using the hand strap or the grip.
   ...swing the soft camera case excessively when the camcorder is inside it.
5. **Dirty heads can cause the following problems:**



• No picture during playback.
• Blocks of noise appear during playback.
• During recording or playback, the Head Clog Warning indicator "⊗" appears.
• Recording cannot be performed properly.

In such cases, use an optional cleaning cassette. Insert it and play back. If the cassette is used more than once consecutively, damage to the video heads may result. After the camcorder plays back for about 20 seconds, it stops automatically. Also refer to the cleaning cassette's instructions.
If, after using the cleaning cassette, the problems still exist, consult your nearest JVC dealer.
Mechanical moving parts used to move the video heads and video tape tend to become dirty and worn out over time. In order to maintain a clear picture at all times, periodic check-ups are recommended after using the unit for about 1,000 hours. For periodic check-ups please consult your nearest JVC dealer.

How To Handle A CD-ROM

- Take care not to soil or scratch the mirror surface (opposite to the printed surface). Do not write anything or put a sticker on either the front or back surface. If the CD-ROM gets dirty, gently wipe it with a soft cloth outward from the centre hole using a circular motion.
- Do not use conventional disc cleaners or cleaning spray.
- Do not bend the CD-ROM or touch its mirror surface.
- Do not store your CD-ROM in a dusty, hot or humid environment. Keep it away from direct sunlight.

About moisture condensation...

- You have observed that pouring a cold liquid into a glass will cause drops of water to form on the glass' outer surface. This same phenomenon occurs on the head drum of a camcorder when it is moved from a cool place to a warm place, after heating a cold room, under extremely humid conditions or in a place directly subjected to the cool air from an air conditioner.
- Moisture on the head drum can cause severe damage to the video tape, and can lead to internal damage to the camcorder itself.

Serious malfunctioning

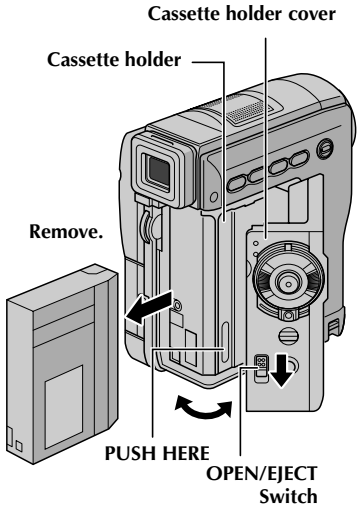
If malfunctioning occurs, stop using the unit immediately and consult your local JVC dealer.

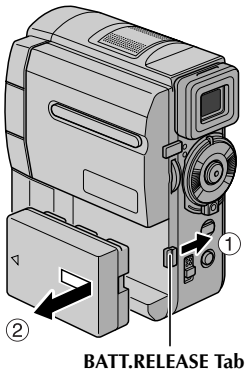
The camcorder is a microcomputer-controlled device. External noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such cases, first disconnect its power supply unit (battery pack, AC Adapter, etc.) and wait a few minutes and then re-connect it and proceed as usual from the beginning.

After Use

1. Turn off the camcorder.
2. Slide down and hold **OPEN/EJECT** in the direction of the arrow, then pull the cassette holder cover open until it locks. The cassette holder opens automatically. Remove the cassette.
3. Press "PUSH HERE" to close the cassette holder.
   - Once the cassette holder is closed, it recedes automatically. Wait until it recedes completely before closing the cassette holder cover.
4. Slide and hold the **BATT.RELEASE** tab to the right ① and remove the battery pack ②.

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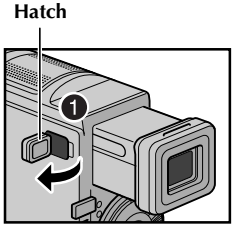


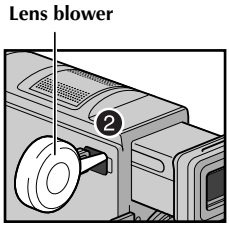
Cleaning The Camcorder

1. To clean the exterior, wipe gently with a soft cloth.
   Put the cloth in diluted mild soap and wring it well to wipe off heavy dirt. Then wipe again with a dry cloth.
2. Open the LCD monitor. Wipe gently with a soft cloth. Be careful not to damage the monitor. Close the LCD monitor.
3. To clean the lens, blow it with a blower brush, then wipe gently with lens cleaning paper.
4. Pull out the viewfinder fully.
5. Open the viewfinder cleaning hatch in the direction of the arrow ❶.
   Insert a lens blower or soft cloth into the gap at the side of the viewfinder and clean the interior of the viewfinder with it ❷.
6. Close the hatch until it locks in place and push the viewfinder back in.

NOTES:

- *Avoid using strong cleaning agents such as benzine or alcohol.*
- *Cleaning should be done only after the battery pack has been removed or other power units have been disconnected.*
- *Mould may form if the lens is left dirty.*
- *When using a cleaner or chemically treated cloth refer to the cautions of each product.*





Camcorder

For General

Power supply	:	DC 11.0 V (Using AC Adapter) DC 7.2 V (Using battery pack)
Power consumption		
LCD monitor off, viewfinder on	:	Approx. 3.8 W
LCD monitor on, viewfinder off	:	Approx. 4.7 W
Dimensions (W x H x D)	:	54 mm x 113.5 mm x 96 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	:	Approx. 490 g (GR-DVX707/507) (incl. grip belt) Approx. 480 g (GR-DVX407/400) (incl. grip belt)
Operating temperature	:	0°C to 40°C
Operating humidity	:	35% to 80%
Storage temperature	:	–20°C to 50°C
Pickup	:	1/3.8″ CCD (GR-DVX707) 1/4″ CCD (GR-DVX507/407/400)
Lens	:	F 1.8, f = 3.8 mm to 38 mm, 10:1 power zoom lens (GR-DVX707) F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens (GR-DVX507/407/400)
Filter diameter	:	ø27 mm
LCD monitor	:	2.5″ diagonally measured, LCD panel/TFT active matrix system
Viewfinder	:	Electronic viewfinder with 0.44″ black/white LCD
Speaker	:	Monaural

For Digital Video Camera

Format	:	DV format (SD mode)
Signal format	:	PAL standard
Recording/Playback format	:	Video : Digital component recording Audio : PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	:	Mini DV cassette
Tape speed	:	SP: 18.8 mm/s LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)	:	SP: 80 min. LP: 120 min.

For Digital Still Camera (GR-DVX707/507 only)

Storage media	:	SD Memory Card/MultiMediaCard
Compression system	:	Still image : JPEG (compatible) Moving image*: MPEG4 (compatible)
File size		
Still Image	:	3 modes (1280 x 960 pixels*/1024 x 768 pixels/640 x 480 pixels)
Moving Image*	:	1 mode (160 x 120 pixels)
Picture quality	:	2 modes (FINE/STANDARD)
Approximate number of storable images		
	:	☞ pg. 50

* GR-DVX707 only

For Connectors

AV

Video output	:	1 V (p-p), 75 Ω, analogue
Audio output	:	300 mV (rms), 1 kΩ, analogue, stereo
Headphone output (GR-DVX707 only)	:	Stereo
S-VIDEO	:	Y: 1 V (p-p), 75 Ω, analogue output C: 0.29 V (p-p), 75 Ω, analogue output

DV

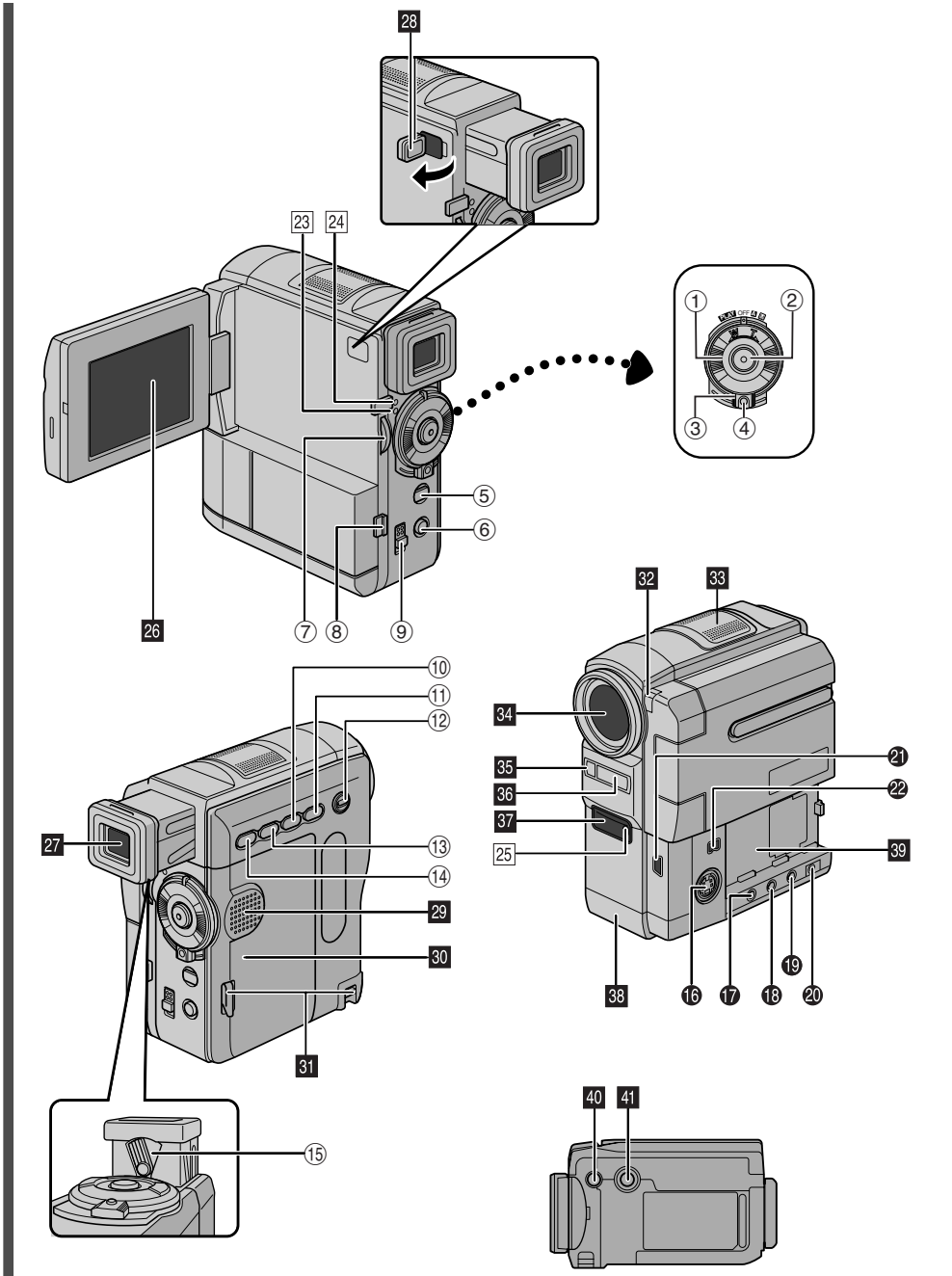
Input/output (GR-DVX707/507/407 only)	:	4-pin, IEEE 1394 compliant
Output (GR-DVX400 only)	:	4-pin, IEEE 1394 compliant
USB (GR-DVX707/507 only)	:	5-pin
EDIT (GR-DVX707/507 only)	:	ø3.5 mm, 2-pole
JLIP (GR-DVX407/400 only)	:	ø3.5 mm, 4-pole
PC (GR-DVX407/400 only)	:	ø2.5 mm, 3-pole

AC Adapter

For General

Power requirement	:	AC 110 V to 240 V~, 50 Hz/60 Hz
Output	:	DC 11.0 V ⎓, 1.0 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.


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Controls

① •Power Zoom Ring [T/W] ..... ☞ pg. 20
•Speaker Volume Control ..... ☞ pg. 22
② Recording Start/Stop Button ..... ☞ pg. 19
③ Power Switch [A, M, PLAY, OFF] ..... ☞ pg. 14
④ Lock Button ..... ☞ pg. 14
⑤ •Snapshot Button [SNAPSHOT] .... ☞ pg. 27, 53
•Information Button [INFO] (GR-DVX707/507 only) ..... ☞ pg. 30
⑥ •E-Mail Clip Recording Button [E-MAIL] (GR-DVX707 only) ..... ☞ pg. 60, 61
•Index Button [INDEX] (GR-DVX707/507 only) ..... ☞ pg. 30, 59, 71
•Exposure Button [EXPOSURE] (GR-DVX407/400 only) ..... ☞ pg. 56
⑦ •Menu Wheel [MENU, +,–] ..... ☞ pg. 38
•LCD Monitor Brightness Control [BRIGHT, +,–] ..... ☞ pg. 13
⑧ Battery Release Tab [BATT.RELEASE] .... ☞ pg. 10
⑨ Cassette Open/Eject Switch [OPEN/EJECT] ..... ☞ pg. 16
⑩ •Play/Pause Button [►/II] ..... ☞ pg. 22
•Backlight Compensation Button [BACKLIGHT] ..... ☞ pg. 57
⑪ •Fast-Forward Button [►►] ..... ☞ pg. 22
•Night-Scope Button [NIGHT] ..... ☞ pg. 53
⑫ VIDEO/MEMORY Switch [VIDEO/MEMORY] (GR-DVX707/507 only) ..... ☞ pg. 14
⑬ •Rewind Button [◄◄] ..... ☞ pg. 22
•Focus Adjustment Button [FOCUS] ..... ☞ pg. 55
⑭ •Stop Button [■] ..... ☞ pg. 22
•Digital Sound Button [D.SOUND] (GR-DVX707 only) ..... ☞ pg. 59
•D.S.C. Playback Select Button [SELECT] (GR-DVX707 only) ..... ☞ pg. 28 – 34
⑮ Dioptre Adjustment Control ..... ☞ pg. 12

Connectors

The connectors are located beneath the covers.

⑯ S-Video Output Connector [S-VIDEO] ..... ☞ pg. 24, 62, 74
⑰ •Edit Connector [EDIT] (GR-DVX707/507 only) ..... ☞ pg. 74
•J Terminal [JLIP (Joint Level Interface Protocol)] (GR-DVX407/400 only) ..... ☞ pg. 74
You can also connect to a JLIP-compatible camcorder or VCR to control it from the computer using the optional Software HS-V16KITE.
⑱ Headphone Connector [🎧] (GR-DVX707 only) ..... ☞ pg. 70
No sound is output from the speaker when headphones are connected to this connector.
⑲ Audio/Video Output Connector [AV] ..... ☞ pg. 24, 62, 74
⑳ DC Input Connector [DC] ..... ☞ pg. 10, 11
㉑ •USB (Universal Serial Bus) Connector (GR-DVX707/507 only) ..... ☞ pg. 78
•PC Connector (GR-DVX407/400 only) ..... ☞ pg. 78
㉒ Digital Video Connector [DV IN/OUT (GR-DVX707/507/407) or DV OUT (GR-DVX400)] (i.link*) ..... ☞ pg. 63, 64, 78
* i.Link refers to the IEEE1394-1995 industry specification and extensions thereof. The logo is used for products compliant with the i.Link standard.

Indicators

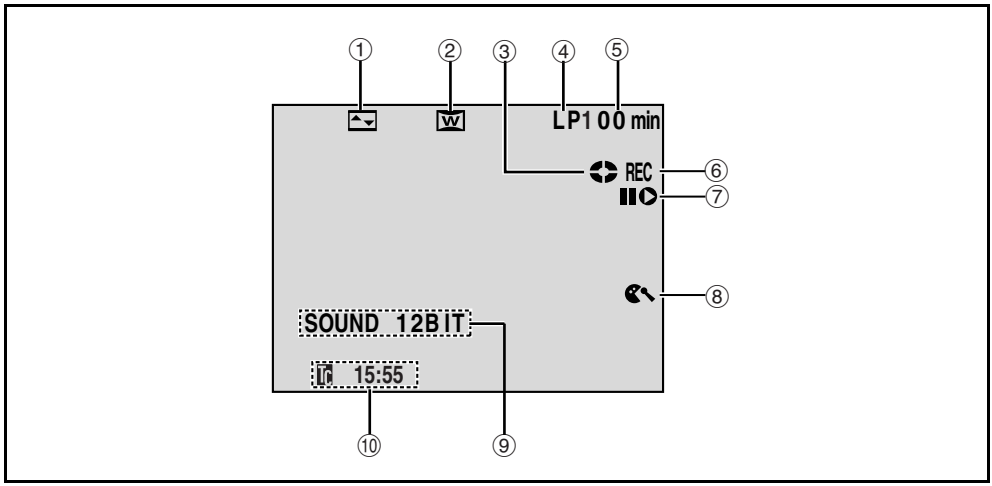
23 Power Lamp [POWER] ..... ☞ pg. 14, 19
24 Charge Lamp [CHARGE] ..... ☞ pg. 10
25 Tally Lamp ..... ☞ pg. 19, 48

Other Parts

26 LCD Monitor ..... ☞ pg. 13, 20
27 Viewfinder ..... ☞ pg. 12
28 Viewfinder Cleaning Hatch ..... ☞ pg. 91
29 Speaker ..... ☞ pg. 22
30 Cassette Holder Cover ..... ☞ pg. 16
31 Grip Belt Eyelet ..... ☞ pg. 6
32 Camera Sensor
Be careful not to cover this area, a sensor necessary for shooting is built-in here.
33 Stereo Microphone ..... ☞ pg. 70
34 Lens
35 Flash Sensor (GR-DVX707/507 only)
Be careful not to cover this area, as it contains a sensor required by the flash.
36 Flash (GR-DVX707/507 only) ..... ☞ pg. 54
37 Remote Sensor ..... ☞ pg. 66
38 Card Cover [MEMORY CARD] (GR-DVX707/507 only) ..... ☞ pg. 17
39 Battery Pack Mount ..... ☞ pg. 10
40 Stud Hole
41 Tripod Mounting Socket ..... ☞ pg. 13

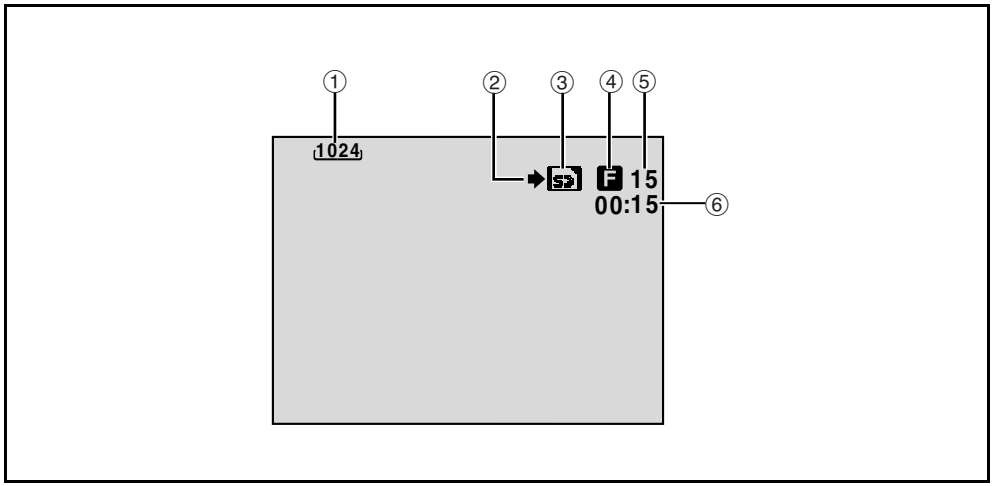
Indications

LCD Monitor/Viewfinder Indications During Video Recording Only



① **Selected Wipe/Fader Effect Indicator** **(☞ pg. 40, 41)**
② **Selected Wide Mode Indicator** **(☞ pg. 46)**
③ **Tape Running Indicator** **(☞ pg. 19)**
(Rotates while tape is running.)
④ **Recording Speed Mode (SP/LP)** **(☞ pg. 44)**
⑤ **Tape Remaining Time** **(☞ pg. 19)**
⑥ •**REC:** (Appears during recording) **(☞ pg. 19)**
•**PAUSE:** (Appears during Record-Standby mode) **(☞ pg. 19)**
⑦ **Insert Editing/Insert Editing Pause Mode** **(☞ pg. 72)**
⑧ **Wind Cut Indicator** **(☞ pg. 47)**
⑨ **Sound Mode Indicator** **(☞ pg. 44)**
(Appears for approx. 5 seconds after turning on the camcorder)
⑩ **Time Code** **(☞ pg. 49, 52)**

LCD Monitor/Viewfinder Indications During D.S.C. Recording Only (GR-DVX707/507 only)



① **Image Size: 1280 (1280 x 960) (GR-DVX707 only), 1024 (1024 x 768) or 640 (640 x 480)** **(☞ pg. 50)**

② **Shooting Icon** **(☞ pg. 27)**
(Appears and blinks during shooting.)

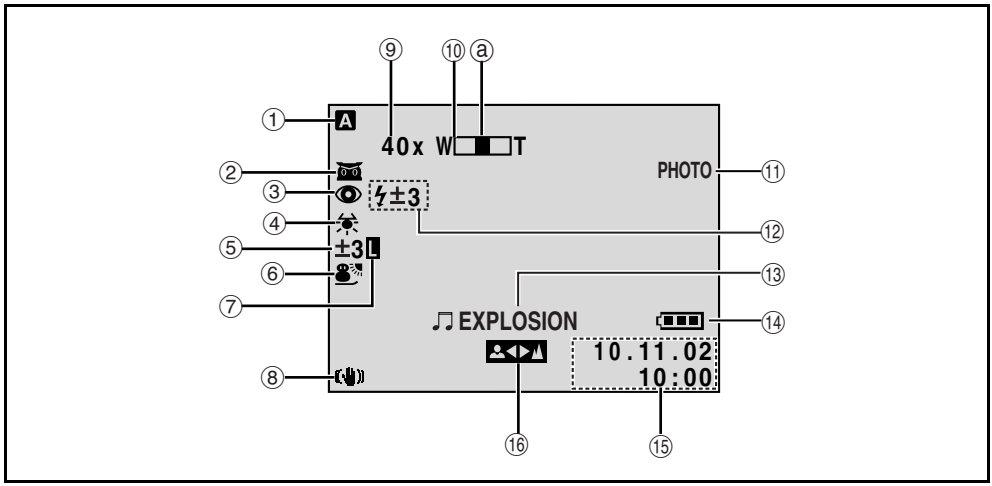
③ **Card Icon** **(☞ pg. 27)**
(Appears during shooting and blinks when a memory card is not loaded: (SD Memory Card) or M (MultiMediaCard).)

④ **Picture Quality: F (FINE) and S (STANDARD) (in order of quality)** **(☞ pg. 50)**

⑤ •**Remaining Number Of Shot** **(☞ pg. 27)**
(Displays the approximate remaining number of shots that can be stored. The number increases or decreases depending on the Picture Quality/ Image Size, etc.)
•**Memory Card Remaining Time For E-Mail Clip Recording (GR-DVX707 only)** **(☞ pg. 60)**

⑥ **E-Mail Clip Recording Time (GR-DVX707 only)** **(☞ pg. 60)**

LCD Monitor/Viewfinder Indications During Both Video And D.S.C. Recording



① **Operation Mode** (☞ **pg. 14**)

② • **: Night-Scope Indicator** (☞ **pg. 53**)
(Appears when Night-Scope is engaged.)
• **A: Gain Up Mode (GR-DVX707/507 only)** (☞ **pg. 45**)
(Appears when "GAIN UP" is set to "AUTO" and the shutter speed is automatically adjusted.)

③ **Red Eye Reduction Indicator (GR-DVX707/507 only)** (☞ **pg. 54**)
(Appears when the "FLASH" is set to "AUTO ◉".)

④ **White Balance Indicator** (☞ **pg. 58**)

⑤ • **: Backlight Compensation Indicator** (☞ **pg. 57**)
• **±: Exposure Adjustment Indicator** (☞ **pg. 56**)

⑥ **Selected Program AE With Special Effects Indicator** (☞ **pg. 42, 43**)

⑦ **Iris Lock Indicator** (☞ **pg. 57**)

⑧ **Digital Image Stabiliser ("DIS")** (☞ **pg. 46**)

⑨ **Approximate Zoom Ratio** (☞ **pg. 20**)
(Appears during zooming.)

⑩ **Zoom Indicator** (☞ **pg. 20**)
(Appears during zooming.)
(The level indicator ⓐ moves.)

⑪ **PHOTO:** (Appears when taking Snapshot) (☞ **pg. 53**)

⑫ **Flash Indicator (GR-DVX707/507 only)** (☞ **pg. 54**)
(Appears when the flash is ready. A number appears next to the indication after adjusting the brightness of the flash.)

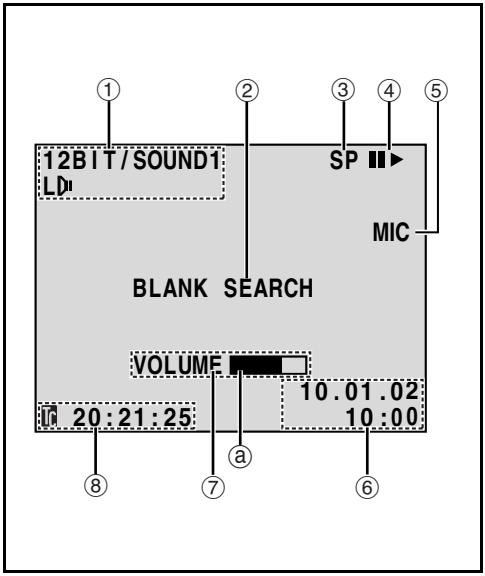
⑬ • **♫ EXPLOSION: Selected Digital Sound Effect (GR-DVX707 only)** (☞ **pg. 59**)
• **BRIGHT: Brightness Control Indicator (LCD monitor)** (☞ **pg. 13**)
(The level indicator ⓐ moves.)

⑭ **Battery Indicator** (☞ **pg. 100**)

⑮ **Date/Time** (☞ **pg. 15**)

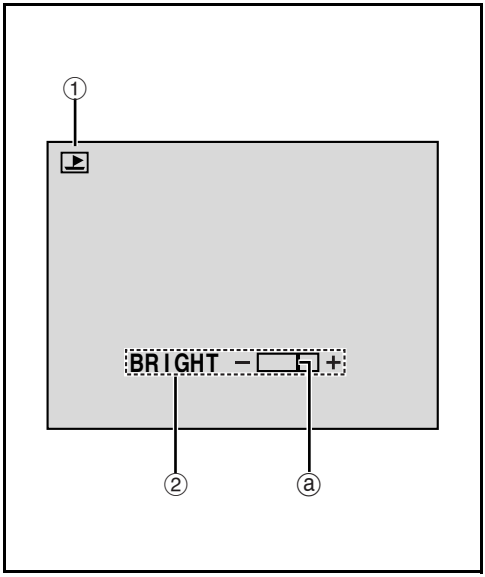
⑯ **Manual Focus Adjustment Indicator** (☞ **pg. 55**)

LCD Monitor/Viewfinder Indications During Video Playback



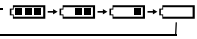
① **Sound Mode Indicator** (☞ pg. 51)
② **Blank Search Indicator** (☞ pg. 23)
③ **Tape Speed** (☞ pg. 44)
④ **•▶ : Playback**
•▶▶ : Fast-Forward/Shuttle Search
•◀◀ : Rewind/Shuttle Search
•❚❚ : Pause
•❚❚ ▶ : Forward Slow-Motion
•◀ ❚❚ : Reverse Slow-Motion
•⏺ : Audio Dubbing
•❚❚⏺ : Audio Dubbing Pause
(Appear while a tape is running.)
⑤ **Sound Input For Audio Dubbing** (☞ pg. 70, 71)
⑥ **Date/Time** (☞ pg. 49, 52)
⑦ **•VOLUME : Volume Level Indicator (Speaker or headphone (GR-DVX707 only))** (☞ pg. 22)
(The level indicator ⓐ moves.)
•BRIGHT : Brightness Control Indicator (LCD monitor) (☞ pg. 13)
(The level indicator ⓐ moves.)
⑧ **Time Code** (☞ pg. 49, 52)

LCD Monitor/Viewfinder Indications During D.S.C. Playback (GR-DVX707/507 only)



① **Operation Mode Indicator** (☞ pg. 31)
② **Brightness Control Indicator (LCD monitor)** (☞ pg. 13)
(The level indicator ⓐ moves.)

Warning Indications

Indications	Function
	Displays the battery remaining power. Remaining power level: high  Remaining power level: exhausted As the battery power comes close to nil, the battery indicator blinks. When the battery power is exhausted, power turns off automatically.
	Appears when no tape is loaded. (☞ pg. 16)
CHECK TAPE'S ERASE PROTECTION TAB	Appears when the erase protection tab is set to "SAVE" while the Power Switch is set to "A" or "M" and the **VIDEO/MEMORY** Switch is set to "VIDEO". (☞ pg. 14)
HEAD CLEANING REQUIRED USE CLEANING CASSETTE	Appears if dirt is detected on the heads during recording. Use an optional cleaning cassette. (☞ pg. 91)
CONDENSATION OPERATION PAUSED PLEASE WAIT	Appears if condensation occurs. When this indication is displayed, wait more than 1 hour until condensation disappears.
TAPE!	Appears if a tape is not loaded when the Recording Start/Stop Button or **SNAPSHOT** Button is pressed while the Power Switch is set to "A" or "M" and the **VIDEO/MEMORY** Switch is set to "VIDEO".
TAPE END	Appears when the tape ends during recording or playback. (☞ pg. 81)
DIFFERENT FORMATTED TAPE	Appears if a tape in another format is loaded.
SET DATE/TIME!	● Appears when the date/time is not set. (☞ pg. 15) ● Appears when the built-in clock (lithium) battery is discharged and the previously set date/time is erased. (☞ pg. 15)
LENS CAP	Appears for 5 seconds after power is turned on if the lens cap is attached.
A. DUB ERROR!	Appears if Audio Dubbing is attempted on a blank portion of a tape. (☞ pg. 70)
A. DUB ERROR! <CANNOT DUB ON A LP RECORDED TAPE> <CANNOT DUB ON A 16BIT RECORDING> <CHECK TAPE'S ERASE PROTECTION TAB> <MEMORY CARD>	● Appears if Audio Dubbing is attempted on a tape recorded in the LP mode. (☞ pg. 70) ● Appears if Audio Dubbing is attempted on a tape recorded in 16-bit audio. (☞ pg. 70) ● Appears if **A. DUB** (⏏) on the remote control is pressed when the erase protection tab is set to "SAVE". (☞ pg. 70) ● Appears if Audio Dubbing using Digital Sound Effects is attempted when a memory card is not loaded. (☞ pg. 71)
INSERT ERROR!	Appears if Insert Editing is attempted on a blank portion of a tape. (☞ pg. 72)

Indications	Function
INSERT ERROR! <CANNOT EDIT ON A LP RECORDED TAPE> <CHECK TAPE'S ERASE PROTECTION TAB>	● Appears if Insert Editing is attempted on a tape recorded in the LP mode. (☞ pg. 72) ● Appears if **INSERT** (C) on the remote control is pressed when the erase protection tab is set to "SAVE". (☞ pg. 72)
MEMORY IS FULL	Appears when the memory card's memory is full and shooting is not possible.
COPYING FAILED	● Appears if dubbing of copyguarded signals is attempted while this camcorder is being used as a recorder. ● Appears in the following cases when dubbing from a tape to a memory card (as digital stills or video clips): – when no memory card is loaded. – when the memory card's memory is full. – when the memory card is not formatted. – when a write-protected SD Memory Card is loaded. (☞ pg. 61, 65)
MEMORY CARD! or PLEASE INSERT CARD	Appears if there are no sound files stored on the memory card loaded when you attempt to record on a memory card or access data on a memory card.
PLEASE FORMAT	Appears when there is a problem with a memory card and its memory is corrupt, or it has not been initialised. Initialise the memory card. (☞ pg. 36)
NO SOUND FILES	Appears if there are no sound files stored in the memory card when you attempt to use digital sound effects.
NO IMAGE STORED	Appears if there are no image files stored in the memory card when you attempt memory card playback.
NO E-MAIL CLIP STORED	Appears if there are no video clip files stored in the memory card when you attempt memory card playback.
CARD ERROR!	Appears when the camcorder does not recognise the loaded memory card. Remove the memory card once and insert it again. Repeat these procedures until no indication appears. If the indication still appears, the memory card is corrupted.
UNSUPPORTED FILES	● Appears when a file in a format other than MP3 is selected. ● Appears when playing back a file that is not compatible with DCF or a file with a size that is not compatible with this camcorder.
CHECK CARD'S WRITE PROTECTION SWITCH	● Appears when you attempt to shoot digital still images when the write protection tab on the SD Memory Card is set to the "LOCK" position. ● Appears when you attempt MEMORY SELECT menu operation with a write-protected SD Memory Card loaded.
E01, E02 or E06 UNIT IN SAFEGUARD MODE REMOVE AND REATTACH BATTERY	The error indications (E01, E02 or E06) show what type of malfunction has occurred. When an error indication appears, the camcorder turns off automatically. Remove the power supply (battery, etc.) and wait a few minutes for the indication to clear. When it does, you can resume using the camcorder. If the indication remains, consult your nearest JVC dealer.
E03 or E04 UNIT IN SAFEGUARD MODE EJECT AND REINSERT TAPE	The error indications (E03 or E04) show what type of malfunction has occurred. When an error indication appears, the camcorder turns off automatically. Eject the cassette once and re-insert it, then check if the indication clears. When it does, you can resume using the camcorder. If the indication remains, consult your nearest JVC dealer.

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GR-DVX707
GR-DVX507
GR-DVX407
GR-DVX400

JVC

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